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# BULLETIN

OF THE

UNITED STATES NATIONAL MUSEUM.

No. 35.

BIBLIOGRAPHICAL CATALOGUE OF THE DESCRIBED TRANSFORMATIONS  
OF NORTH AMERICAN LEPIDOPTERA.

BY

HENRY EDWARDS.

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WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1889.

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## ADVERTISEMENT.

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The present publication (Bulletin No. 35) is the forty-sixth of a series of papers intended to illustrate the collections belonging to the United States, and constituting the National Museum, of which the Smithsonian Institution was placed in charge by the act of Congress of August 10, 1846.

The publications of the National Museum consist of two series—the Bulletins, of which this is No. 35, in continuous series, and the Proceedings, of which the eleventh volume is now in press.

The volumes of Proceedings are printed, signature by signature, each issue having its own date, and a small edition of each signature is distributed to libraries promptly after its publication.

Full lists of the publications of the Museum may be found in the current catalogues of the publications of the Smithsonian Institution.

Papers intended for publication in the Proceedings and Bulletins of the National Museum are referred to the Committee on Publications, consisting of the following members: T. H. Bean, A. Howard Clark (editor), Otis T. Mason, John Murdoch, Leonhard Stejneger, Frederick W. True, and Lester F. Ward.


S. P. LANGLEY,

*Secretary of the Smithsonian Institution.*

*Washington, January 23, 1889.*

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## PREFACE.

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I believe that the present Catalogue will supply a want that has long been felt by many entomologists, and though it may be far from perfect, it will, I trust, be acceptable to the students of the earlier stages of North American Lepidoptera. In its compilation I have occupied a good portion of the spare time at my command for three years past, and have carefully examined every publication that has been accessible to me. I know that many references may possibly have been omitted, the works in which they occur not being within my reach, but I trust that few if any *species* have been overlooked altogether. Should such be the case, however, I shall be greatly indebted to my entomological friends if they will point them out to me, as it is my intention to issue a supplement to this list once a year, and thus keep up with the knowledge of what descriptions have been recorded. In the nomenclature I have followed the catalogue of W. H. Edwards in the *Diurnæ*; Grote's Check List (1882) in the *Macro-Lepidoptera*; Professor Fernald in the *Tortricidæ*; Stainton, Clemens, and Chambers in the *Tineidæ*; and Lord Walsingham in the *Pterophoridae*. Of the two latter families no catalogue of our species exists, and I therefore ask for indulgence should any errors in the sequence of the genera or otherwise be detected. It has been my aim to make the references as clear but at the same time as brief as possible, and I have, as will be seen, arranged all descriptions according to the date of their publication. When the words (quotes Harris, *e. g.*) occur after the name of the describer, it will be understood that the *text* of the description has been used; but when the words (*after* Riley or Abb. Sm., etc.) are found, it will mean that the *drawing* or *engraving* has been borrowed from these authors. In all the species, where known to me, the food-plant has been given, except in the case of the *Arctias* and in *Agrotis*, the former being almost general feeders, and the latter living chiefly on grasses and low herbaceous plants. If a reference is followed by the word (brief), it signifies that the same is but a mere mention, often perhaps only a food-plant, but it has been deemed advisable to include such notices. In the appendix are a few species not referable to any known insects, and I have added a short list of some papers which may be of value to the students of transformations. I should like also to call attention to the admirable "life histories" by Messrs. Riley, French, Edwards, Saunders, Packard, H. H. Clark, and others, which are scattered through Entomological Reports, both State and National, the Canadian Entomologist, "Papilio," "Entomologica Americana," and kindred publications, papers which may advantageously be studied by future

describers as models of style and accuracy. I desire to tender my warmest thanks to Professor Riley, Mr. S. H. Scudder, Mr. J. B. Smith, Mr. W. H. Edwards, and Mr. W. Beutenmüller for much valuable aid, both in the loan of publications and the copying of references, thus greatly assisting me in my task.

I earnestly hope that the publication of this catalogue will be the means of inducing observers to take a wider and more extended interest in the preparatory stages, and to place as early as possible upon record the results of their studies. It will be readily seen that though, up to the end of the *Berytycidae*, a good deal has already been done, the knowledge of the transformations of the *Noctuidae* and succeeding families is slight indeed, and it is to these groups that attention is especially directed. Should this list be instrumental in adding to our information regarding the many species of Lepidoptera, of whose earlier stages we now know so little, my labor will be rewarded, and the many hours passed in its preparation will not have been occupied in vain.

HENRY EDWARDS

NUMBER OF SPECIES OF WHICH EARLIER STAGES ARE RECORDED IN  
THIS CATALOGUE.

NAME.	No. of species.
Rhopalocera.....	180
Sphingidae.....	55
Egeriade.....	16
Zygenide.....	13
Bombyces.....	178
Noctuidae.....	188
Geometridae.....	101
Pyralidae.....	39
Tortricidae.....	61
Tineidae.....	222
Pterophoridae.....	16
Total.....	1,069

PRINCIPAL AUTHORS AND PUBLICATIONS QUOTED.

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     Species General, Heterocera.  
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     Stainton.)  
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     Agr., 1879-'80.  
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     vols. 1-5.  
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## ERRATA.

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Page 17, line 10 from top—read *Astragalus*, *Crotalaria* for *Astragalus crotalaria*.

Page 20, line 19 from top—read *Argynnis* for *Argynis*.

Page 2', line 13 from top and line 27 from bottom—read *Castilleia* for *Castileja* and *Casteleja*.

Page 45, line 7 from top—read *Ulmus americana* for *Ulmus americanus*.

Page 58, line 21 from top—read *Enothera* for *Ænothera*.

Page 61, line 6 from top—read *Asclepias tuberosa* for *Asclepias tuberosum*.

Page 64, line 3 from top—read *Quercus* for *Quereus*.

Page 67, top line—read *Thyridopteryx* for *Thyridoptery*.

Page 94, line 22 from top—read *Cruciferae* for *Cruciferæ*.

Page 94, line 27 from top—read *Anarta* for *Ararta*.

Page 109, line 1 from bottom—read *Fuchsia* for *Fuschia*.

Page 112, line 1 from bottom—read *Oxycoccus* for *Occycoccus*.

# DESCRIBED TRANSFORMATIONS OF NORTH AMERICAN LEPIDOPTERA.

## RHOPALOCERA.

### **Papilio ajax.** L. (and vars.)

1797. Larva, chrys., (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 4.  
 1833. Larva, chrys., (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer., pp. 4-8, pl. 1-2.  
 1836. Larva. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, pp. 257-259.  
 1859. Larva, chrys., (figs.) *P. H. Gosse*. Letters from Alabama, p. 51.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 209.  
 1871. Life hist., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 1st series, pl. Papilio, 1, 2, 3.  
 1880. Larva. *Miss N. Middleton*. Trans. Dep't Agr. Ill., vol. 18, Appendix, p. 74.  
 1884. Larva, (figs.) *Dr. A. Gruber*. Jena. Zeitschr. Nat. Copied in Papilio, vol. 4, p. 88.  
 1886. Life hist., (condensed.) *G. H. French*. Butt. East. U. States, p. 85.  
 FOOD PLANT. *Asimina triloba*. (Pawpaw.)

### **Papilio philenor.** Fab.

1797. Larva. *Abbot-Smith*. Lep. Ins. Georgia, pl. 3.  
 1833. Larva, (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer., p. 29, pl. 11.  
 1836. Larva, chrys. *Boisdural*. Spec. Gener. Diurnæ, vol. 1, p. 325.  
 1837. Larva, chrys. *Westwood*, (quotes Abb.-Sm.) Drury's Ill. Exot. Entom., vol. 1, p. 21.  
 1861. Larva. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 6.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 209.  
 1869. Larva, chrysalis, (figs.) *Harris*. Entom. Corres., p. 273.  
 1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 116.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc.  
 1874. Chrysalis, (fig.) *Scudder*. Geology N. Hampshire, pl. A.  
 1875. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 132.  
 1877. Larva. *G. H. French*. Trans. Dept. Agr. Ill., vol. 15, p. 136.  
 1880. Larva, (figs.) *D. W. Coquillett*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 164.  
 1880. Larva, (figs.) *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 73.  
 1880. Larva, chrysalis, (figs.) *W. Saunders*. Rept. Entom. Soc. Ontario, p. 37.  
 1881. Life hist. *W. H. Edwards*. Canad. Entom., vol. 13, p. 9.  
 1881. Larva, chrysalis, (figs.) *S. H. Scudder*. Butterflies, their structure, etc., p. 22.  
 1884. Larva, (figs.) *Dr. A. Gruber*. Jena Zeitschr. Nat. Copied in Papilio, vol. 4, p. 88.  
 1886. Life history, (figs.) *G. H. French*. Butt. East. U. States, p. 88.  
 FOOD PLANTS. Species of *Aristolochia*.

### **Papilio zolicaon.** Bdv.

1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 163.  
 1875. Larva, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Papilio, 6.  
 1884. Life hist. *W. H. Edwards*. Papilio, vol. 4, p. 162.  
 FOOD PLANTS. Species of *Umbelliferae*.

**Papilio brevicauda.** Saund.

1873. Egg, young larva, (figs.) *H. Strecker*, (quotes Couper in lit.) *Rhopal. et Heteroc.*, pp. 49-69, pl. 8.  
 1875. Egg, larva (col'd fig.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. Papilio, 8.  
 1880. Life hist., (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, part 9, pl. Papilio, 8.  
 1883. Larva. *P. H. Gosse*, in *Journal from 1832 to 1835*. *Canad. Entom.*, vol. 15, p. 45.  
 1884. Larva, (brief.) *Gruber*. *Jena Zeitschr. Nat.* Copied in *Papilio*, vol. 4, p. 86.  
 1885. Egg, larva. *W. H. Edwards*, (quotes Couper in lit.) *Butt. N. Amer.*, 2d series, pl. 13.

FOOD PLANTS. Various species of *Umbelliferae*.

**Papilio machaon.** L. var. *alaska*. Seud.

1884. Larva, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. 14.

FOOD PLANT. Species of *Umbelliferae*.

**Papilio oregonia.** Edw.

1882. Larva, chrysalis. *R. H. Stretch*. *Papilio*, vol. 2, p. 120.

FOOD PLANT. "Wild parsnip."

**Papilio asterias.** Tab.

1833. Larva, chrys., (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 14, pl. 4.  
 1836. Larva, chrys. *Boisduval*. *Spec. Gener. Diurnæ*, vol. 1, p. 333.  
 1841. Life history, (brief.) *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 212.  
 1852. Life history, (brief.) *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 231.  
 1857. Larva, chrysalis, (figs.) *Anonymous*. *Canad. Nat. and Geolog.*, vol. 2, p. 222.  
 1861. Larva. *Morris*, (quotes Bois.-Lee.) *Synop. Lep. N. Amer.*, p. 6.  
 1832. Life history, (col'd figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 263, pl. 4.  
 1864. Egg, larva, chrysalis. *Lintner*. *Proc. Entom. Soc. Phila.*, vol. 3, p. 51.  
 1864. Larva, (fig.) *Jaeger*. *Life N. Amer. Ins.*, p. 208.  
 1867. Larva, chrys., (figs.) *Sanborn Tenney*. *Manual of Zoology*, figs. 281, 282.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 270.  
 1873. Larva, chrysalis. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, vol. 5, p. 164.  
 1876. Larva. *Saunders*. *Rept. Entom. Soc. Ontario*, p. 38.  
 1877. Larva. *Packard*. *Inj. Ins. West, Hayden's Rept.*, p. 765.  
 1877. Larva. *G. H. French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 137.  
 1878. Larva, chrys. *Dewitz*. *Zeitsch. gesament. natur.*  
 1878. Larva, chrys., (figs.) *H. Dewitz*. *Weigemann Archiv. Naturgesch.* p. 4, pl. 1.  
 1879. Larva, chrysalis, (figs.) *Mrs. J. P. Ballard*. *Insect Lives*, p. 32.  
 1880. Larva. *Miss N. Middleton*. *Trans. Dept. Agr. Ill., App.*, vol. 18, p. 74.  
 1880. Larva. *D. W. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, App., p. 173.  
 1881. Larva, (figs.) *S. H. Scudder*. *Butterflies, their structure, etc.*, p. 24.  
 1884. Egg, larva, chrys. *C. H. Fernald*. *Butterflies of Maine*, p. 22.  
 1884. Larva. *Dr. A. Gruber*. *Jena Zeitschr. Nat.* Copied in *Papilio*, vol. 4, p. 84.  
 1886. Life hist., (figs.) *H. French*. *Butt. East. U. States*, p. 92.

FOOD PLANTS. Various species of *Umbelliferae*.

**Papilio troilus.** L.

1797. Larva, chrys., (col'd figs.) *Abbot—Smith*, (as *P. ilioneus*.) *Lep. Ins. Georgia*, pl. 2.  
 1833. Larva. *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 26, pl. 10.  
 1836. Larva. *Boisduval*. *Spec. Gener. Diurnæ*, vol. 1, p. 335.

1857. Larva, chrysalis, (figs.) *Anonymous*. *Canad. Nat. and Geolog.*, vol. 2, p. 312.

1861. Larva. *Morris*, (quotes Bois.-Lec.) *Synop. Lep. N. Amer.*, p. 5.

1862. Larva, chrysalis. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 266.

1864. Larva. *Jaeger*. *Life N. Amer. Ins.*, p. 209.

1869. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 73.

1869. Larva, stages of. *Harris*. *Entom. Corres.*, p. 271, pl. 2 and 4.

1877. Larva, chrysalis. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 138.

1880. Larva. *Miss N. Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, App., p. 74.

1881. Larva, chrys. *Gundlach*. *Entom. Cubana*, p. 136.

1881. Chrysalis, (figs.) *Scudder*. *Butterflies, their structure, etc.*, p. 44, pl. 60.

1884. Larva. *Dr. A. Gruber*. *Jena Zeitschr. Nat.* Copied in *Papilio*, vol. 4, p. 87.

1886. Larva, chrysalis. *French*. *Butt. East. U. States*, p. 93.

FOOD PLANTS. *Laurus*, *Sassafras*.

***Papilio palamedes*. *Drury*.**

1833. Larva. *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 17, pl. 5.

1836. Larva, chrys. *Boisduval*. *Spec. Gener. Diurnae*, vol. 1, p. 338.

1837. Larva. *Westwood*, (quotes Bois.) *Drury's Ill. Exot. Entom.*, vol. 1, p. 36.

1861. Larva. *Morris*, (quotes Bois.-Lec.) *Synop. Lep. N. Amer.*, p. 7.

1864. Larva. *Jaeger*. *Life N. Amer. Ins.*, p. 210.

1881. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 13, p. 119.

1886. Life hist., (condensed.) *French*. *Butt. East. U. States*, p. 95.

FOOD PLANTS. *Laurus*, *Citrus*.

***Papilio turnus*. *L.***

1833. Larva, (col'd fig.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 19, pl. 7.

1836. Larva, chrysalis. *Boisduval*. *Spec. Gener. Diurnae*, vol. 1, p. 339.

1840. Larval stages, chrysalis. *P. H. Gosse*. *Canad. Naturalist*, pp. 249, 293.

1856. Larva. *Fitch*. *3d Rept. Ins. N. York*, p. 341.

1857. Larva, chrysalis. *Anonymous*. *Canad. Nat. and Geolog.*, vol. 2, p. 223.

1861. Larva. *Morris*, (quotes Bois.-Lec.) *Synop. Lep. N. Amer.*, p. 2.

1862. Larva, chrysalis, (figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 268.

1863. Larva. *B. D. Walsh*. *Proc. Entom. Soc. Phila.*, vol. 1, p. 352.

1863. Chrysalis. *J. A. Lintner*. *Proc. Entom. Soc. Phila.*, vol. 3, p. 51.

1869. Egg, larval stages. *Saunders*. *Canad. Entom.*, vol. 1, pp. 51, 74.

1873. Life hist., (brief.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 21.

1874. Life history. *Saunders*. *Canad. Entom.*, vol. 6, p. 2.

1876. Larva. *G. H. Perkins*. *2d Rept. Vermont State Board Agric.*, p. 589.

1877. Life hist., (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Papilio*, 3.

1877. Larva. *Packard*. *Half-hours with Insects*, p. 180.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 139.

1879. Larva, (figs., brief.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 73, fig. 4.

1880. Larva. *Miss N. Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, p. 74.

1880. Larva. *D. W. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, p. 173.

1883. Egg, larval stages, chrysalis (figs.) *Saunders*. *Ins. Injur. Fruits*, p. 83.

1884. Egg, larva, chrysalis (figs.) *Fernald*. *Butt. of Maine*, p. 24.

1884. Larva. *Dr. A. Gruber*. *Jena Zeitschr. Nat.* Copied in *Papilio*, vol. 4, p. 86.

1886. Life history, (figs. larva and chrys.) *French*. *Butt. East. U. States*, p. 100.

FOOD PLANTS. *Prunus*, *Cerasus*, *Liriodendron*.

***Papilio turnus*, dim. form, *glaucus*, *L.***

1833. Larva, chrysalis. *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 22, pl. 9.

1836. Larva, chrys. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 336.  
 1856. Larva. *Fitch*. 3d Rept. Inj. Ins. N. York, p. 376.  
 1859. Larva, (brief.) *P. H. Gosse*. Letters from Alabama, p. 123.  
 1877. Young larva, (col'd fig.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Papilio, 4.

1881. Egg, (fig'd.) *Scudder*. Butterflies, their structure etc., p. 7.

**Papilio eurymedon.** Bois.

1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 1.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 164.  
 1874. Larva, chrysalis, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. Papilio, 1.

FOOD PLANT. *Rhamnus californicus*.

**Papilio rutulus.** Bdv.

1870. Larva, chrysalis. *S. H. Scudder*. Proc. Boston Soc. Nat. Hist., vol. 19, p. 221. (Printed as *P. eurymedon* in error.)  
 1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 165.  
 1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 180.  
 1882. Larval stages. *Hy. Edwards*. Papilio, vol. 2, p. 112.  
 1883. Larval stages. *W. H. Edwards*. Papilio, vol. 3, p. 2.  
 1885. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. 12, 13.

FOOD PLANTS. *Alnus viridis*, *Salix* sp.

**Papilio daunus.** Bdv.

1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 1.  
 1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 325.  
 1883. Larva. *W. H. Edwards*. Papilio, vol. 3, p. 2.  
 1884. Larva. *W. Schaus, jr.* Papilio, vol. 4, p. 100.

FOOD PLANTS. *Prunus*, *Cerasus*.

**Papilio pilumaus.** Bdv.

1884. Larva, chrysalis. *W. Schaus, jr.* Papilio, vol. 4, p. 100.

FOOD PLANT. "Feeds on Laurel."

**Papilio crespontes.** Cram.

1833. Larva. —*Boisduval*—*Leconte*. Hist. Lep. N. Amer., p. 31, pl. 12, 13, (as *P. thoas*.)  
 1836. Larva, chrys. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 356.  
 1859. Larva. *P. H. Gosse*, (quotes Bois.) Letters from Alabama, p. 170, (as *P. thoas*.)  
 1862. Larva. *Morris*, (quotes Bois.—*Lec.*) Synop. Lep. N. Amer., p. 8.  
 1877. Larva. *G. H. French*. Trans. Dept. Agr. Ill., vol. 15, p. 140.  
 1878. Larva, chrysalis. *Saunders*. Rept. Entom. Soc. Ontario, p. 61.  
 1878. Larva. *J. Boll*. Canad. Entom., vol. 10, p. 154.  
 1880. Larval stages. *G. H. French*. 6th Ann. Rept. S. Ill. Normal Univ., p. 43.  
 1880. Larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 41.  
 1880. Larva. *W. H. Ashmead*. Insects Injurious to the Orange, p. 47.  
 1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 75.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 132.  
 1881. Life history. *G. H. French*. Canad. Entom., vol. 13, p. 177.  
 1883. Egg, young larva. *Saunders*. Canad. Entom., vol. 15, p. 234.  
 1883. Larva. *A. H. Mundt*. Papilio, vol. 3, p. 26.  
 1883. Larva, chrysalis, (brief.) *N. Coleman*. Papilio, vol. 3, p. 43.  
 1883. Life hist., (brief) (figs.) *Saunders*. Ins. Inj. to Fruits, p. 377.  
 1885. Larva, chrys., (col'd figs.) *Hubbard*. Ins. Affect. Orange, p. 137.  
 1886. Life history, (condensed.) *G. H. French*. Butt. East. U. States, p. 103.

FOOD PLANTS. *Ptelea*, *Dictamnus*, *Citrus*, etc.

**Papilio polydamas.** L.1836. Larva. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 321.1861. Larva. *Morris*, (quotes Boisduval.) Synop. Lep. N. Amer., p. 13.1864. Larva. *Jarger*. Life N. Amer. Ins., p. 210.1878. Larva, chrys., (figs.) *H. Dewitz*. Wiegmann Archiv. Naturgesch., p. 2, fig. 1.1878. Larva, chrys. *Dewitz*. Zeitsch. gesament. natur.1879. Larva, chrys. *Dewitz*. Zeitsch. gesament. natur.1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 121.FOOD PLANT. *Aristolochia*.**Parnassius clodius.** Men.1879. Egg, young larva. *W. H. Edwards*, (as P. Baldur.) Canad. Entom., vol. 11, p. 142.1885. Egg, young larva. *W. H. Edwards*. Canad. Entom., vol. 17, p. 64.1886. Egg, larva. *H. J. Elwes*, (quotes Edw.) Proc. Zool. Soc. London, Jan., p. 51.FOOD PLANTS. *Sedum*, *Saxifraga*.**Parnassius smintheus.** Dby. and Hew.1872. Egg, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 1st series, pl. 3 of *Parnassius*.1875. Egg, young larva. *T. L. Mead*. Rept. on Lep. of Wheeler Exped'n. Geolog. Survey, vol. 5, p. 743.1876. Egg, young larva. *W. H. Edwards*. Canad. Entom., vol. 11, p. 141.1883. Egg, larva. *W. H. Edwards*. Papilio, vol. 3, p. 158.1885. Life history. *W. H. Edwards*. Canad. Entom., vol. 17, p. 61.1886. Egg, young larva. *H. J. Elwes*, (quotes Edw.) Proc. Zool. Soc. London, p. 23.FOOD PLANTS. *Sedum*, *Saxifraga*.**Parnassius behrii.** Edw.1878. Larval stages. *T. L. Mead*. Psyche, vol. 2, p. 181.FOOD PLANT. *Sedum*.**Neophasia menapia.** Felder.1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc. vol. 5, p. 165.1882. Egg, larva. *R. H. Stretch*. Papilio, vol. 2, p. 103.FOOD PLANTS. *Pinus ponderosa*, *P. contorta*, *Abies balsamii*.**Pieris monuste.** L.1833. Larva. *Boisduval—Leconte*. Hist. Lep. N. Amer., p. 43, pl. 16.1836. Larva, chrys. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 497.1861. Larva, chrysalis. *Morris*, (quotes Bois. and Lec.) Synop. Lep. N. Amer., p. 17.1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 101.1883. Egg, larva, chrys., (fig.) *Riley*. Rept. U. S. Dept. Agr., pp. 117-118, pl. 10, fig. 1.1886. Egg, larva, chrysalis. *G. H. French*. Butt. East. U. States, p. 107.FOOD PLANTS. Species of *Cruciferae*.**Pieris beckeri.** Edw.1878. Larva, chrysalis. *T. L. Mead*. Psyche, vol. 2, p. 183.1883. Life hist., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pt. 11, pl. 1 of *Pieris*.FOOD PLANTS. Various species of *Cruciferae*.**Pieris sisymbrii.** Bdv.1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 184.1883. Life hist., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pt. 11, pl. 1 of *Pieris*.FOOD PLANTS. Species of *Cruciferae*.**Pieris protodice.** Bois.—Lec.1870. Life hist., (figs.) *C. V. Riley*. 2d Missouri Rept., p. 104.1870. Larva, chrysalis, (fig'd.) *Townsend Glover*. Rept. U. S. Dept. Agr., p. 79.

1870. Larva, chrys. *C. I. Minot.* Amer. Entom. vol. 2, p. 77.  
 1871. Larva, chrysalis, (fig'd.) *Bethune.* Rept. Entom. Soc. Ontario, p. 425.  
 1873. Life hist. *Saunders.* Canad. Entom., vol. 5, p. 43.  
 1874. Larva, chrys. *Hy. Edwards,* (quotes *C. I. Minot.*) Proc. Cal. Acad. Sci., vol. 5, p. 327.  
 1877. Larva, chrysalis, (fig'd.) *G. H. French.* Trans. Dept. Agr. Ill., vol. 15, p. 141.  
 1877. Larva, chrysalis, (figs.) *Packard.* Inj. Ins. West, Hayden's Rept., p. 750.  
 1879. Larval stages, (figs.) *Cyrus Thomas.* Trans. Dept. Agr. Ill., vol. 17, Appendix, p. 25.  
 1880. Larva, (fig'd.) *Miss N. Middleton.* Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 77.  
 1880. Larva, (fig'd.) *D. W. Coquillett,* (quotes *Riley.*) Trans. Dept. Agr. Ill., vol. 18, p. 178, App.  
 1882. Larva, chrysalis, (fig'd.) *Scudder.* Butt., their structure, etc., p. 21.  
 1882. Larva. *Saunders.* Canad. Entom., vol. 14, p. 1.  
 1882. Larva, (fig'd.) *Saunders.* Rept. Entom. Soc. Ontario, p. 14.  
 1883. Egg, larva, chrys., (figs.) *Riley.* Rept. U. S. Dept. Agr., pp. 114-115; pl. 10, figs. 2-4.  
 1886. Life history, (condensed) (figs.) *G. H. French.* Butt. East. U. States, p. 109.  
 FOOD PLANTS. Species of *Cruciferae*, especially *Brassica*.

***Pieris napol.* Esper.**

1828. Larva, chrys. *Stephens.* Illust. Brit. Entom., Haust., vol. 1, p. 20.  
 1836. Larva, chrys. *Boisduval.* Spec. Gener. Diurnæ, vol. 1, p. 519.  
 1859. Larva, chrys. *Edw. Newman.* Butt. Young England, p. 5.  
 1886. Life history, (figs.) *French.* Butt. East. U. States, p. 11.  
 FOOD PLANTS. Species of *Cruciferae*.

***Pieris oleracea.* Harris.**

1829. Larva. *Harris.* New England Farmer, vol. 7, p. 402. (Entom. Corres., p. 361, pl. 4.)  
 1841. Larva, chrys. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 214.  
 1850. Larva. *Harris.* Agassiz' Lake Superior, p. 386.  
 1852. Life history, (brief.) *Harris.* Ins. Inj. Vegetat., 2d edit., p. 233.  
 1854. Larva. *Emmons.* Natural Hist. N. York. Agriculture, vol. 5, p. 205.  
 1857. Egg, larva, (brief.) *Anonymous.* Canad. Nat. and Geolog., vol. 2, p. 347.  
 1862. Egg, larva, chrysalis. *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 270.  
 1864. Larva, chrysalis. *Lintner.* Proc. Entom. Soc. Phila., vol. 3, p. 54.  
 1869. Life history. *Fitch.* 13th Rept. Ins. N. Y., p. 531.  
 1869. Chrysalis, (fig.) *Harris.* Entom. Corres., pl. 4.  
 1870. Larva, chrysalis, (fig'd.) *Townsend Glover.* Rept. U. S. Dept. Agr., p. 79.  
 1870. Larva, chrysalis, (figs.) *C. F. Riley.* 2d Missouri Rept., p. 105.  
 1871. Larva, chrysalis, (figs.) *Bethune.* Rept. Entom. Soc. Ontario, p. 424.  
 1873. Life history, (fig'd.) *Saunders.* Canad. Entom., vol. 5, p. 37.  
 1877. Egg, larva, (figs.) *Packard.* Inj. Ins. West, Hayden's Rept., p. 746.  
 1877. Larva, (fig'd.) *Packard.* Half Hours with Insects, p. 52.  
 1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 143.  
 1880. Larva, (fig'd.) *Miss N. Middleton.* Trans. Dept. Agr. Ill., vol. 18, p. 77, App.  
 1881. Egg, chrysalis, (figs.) *Scudder,* (after *Riley.*) Butterflies, their structure, etc., p. 165.  
 1883. Egg, larva, (fig'd.) *Riley.* U. S. Agr. Rept., p. 108, pl. 1.  
 1884. Egg, larva, chrysalis, (figs.) *Fernald.* Butt. of Maine, p. 25.  
 FOOD PLANTS. Species of *Cruciferae*.

***Pieris rapæ.* L.**

1828. Larva, chrys., (brief.) *Stephens.* Ill. Brit. Entom., Haust., vol. 1, p. 19.  
 1836. Larva, chrys. *B. Duval.* Spec. Gener. Diurnæ, vol. 1, p. 520.  
 1837. Larva, chrys. *Kollar.* Inj. Insects (London's edit.), p. 150.  
 1842. Larva, chrys., (figs.) *Curtis.* Jour. Royal Agr. Soc. England, p. 312.  
 1856. Larva, chrys. *Chenu—Lucas.* Encyc. Natur. Papillons, p. 50.

1859. Larva, chrys. *Edw. Newman*. Butt. Young England, p. 5.  
 1869. Life history. *Fitch*. 13th Rept. Ins. N. York, p. 543.  
 1870. Larva, chrys., (figs.) *T. Glover*. Rept. U. S. Dept. Agr., p. 78, fig. 38.  
 1870. Life history, (figs.) *C. F. Riley*. 2d Missouri Rept., p. 106.  
 1871. Larva, (fig.) *Bethune*. Rept. Entom. Soc. Ontario, p. 423.  
 1872. Larva, chrysalis, (figs.) *Townend Glover*. Rept. Entom. N. York State Agr. Assoc., p. 82, fig. 15.  
 1873. Larva, (fig'd.) *A. J. Cook*. 12th Rept. Michigan Board Agr., p. 120, fig. 16.  
 1873. Life history. *Saunders*. Canad. Entom., vol. 5, p. 42.  
 1875. Egg, larva, chrysalis, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 31.  
 1877. Larva, chrysalis. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 145.  
 1877. Larva, chrysalis, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 747.  
 1877. Larva, (fig'd.) *Packard*. Half Hours with Insects, p. 54.  
 1878. Egg, larva, chrysalis, (fig'd.) *J. Stauffer*. Agr. Pennsylv.  
 1879. Larva, (fig'd.) *Hiram Cutting*. Pests of Farmer, New Hampshire Board Agr., p. 34.  
 1879. Larval stages. *Cyrus Thomas*, (quotes Curtis and others.) Trans. Dept. Agr. Ill., vol. 17, pp. 10-25.  
 1880. Larva, chrysalis, (fig'd.) *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 77, App.  
 1880. Larva, (fig.) *D. W. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, p. 179, App.  
 1881. Larva, chrysalis, (fig'd.) *Scudder*, (after Riley.) Butt., their structure, etc., p. 124, fig. 112.  
 1882. Larva and chrysalis. *Saunders*. Canad. Entom., vol. 14, p. 2.  
 1882. Larva, chrysalis, (brief.) *W. F. Kirby*. European Butt. and Moths, p. 8.  
 1883. Egg, larva, chrys., (figs.) *Riley*. Rept. U. S. Dept. Agr., pp. 108-113, pl. 1, figs. 1-1d.  
 1884. Egg, larva, chrysalis. *Fernald*. Butt. of Maine, p. 27.  
 1885. Chrysalis, (fig.) *Hy. Edwards*. Standard Nat. Hist., vol. 2, p. 495.  
 1886. Life history, (figs.) *French*. Butt. East. U. States, p. 115.  
 1887. Larva. *J. Fletcher*. Rept. Ent. Dept. Agr. Canada, p. 16.  
 1888. Larva, (brief.) *J. Fletcher*. Rept. Ent. Bot. Dept. Agr. Canada, p. 16.  
 FOOD PLANTS. Species of *Cruciferae*.  
**Pieris occidentalis**. Reakt.  
 1888. Chrysalis. *Hy. Edwards*. Entom. Amer., vol. 3, p. 162.  
**Anthocharis lanceolata**. Bdv.  
 1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 183.  
 FOOD PLANT. *Turritis glabra*.  
**Anthocharis ausoniedes**. Bdv.  
 1874. Larva. *Hy. Edwards*, (quotes T. L. Mead in lit.) Proc. Cal. Acad. Sc., vol. 5, p. 326.  
 1874. Egg, larva, chrysalis, (col'd figs.) *W. H. Edwards*, (quotes T. L. Mead in lit.) Butt. N. Amer., 2d series, pl. 2 of *Anthocharis*.  
 1885. Larva, chrysalis. *W. H. Edwards*. Butt. of N. Amer., 2d series, pl. 13.  
 FOOD PLANTS. Species of *Cruciferae*.  
**Anthocharis hyantis**. Edw.  
 1878. Larva. *T. L. Mead*. Psyche, vol. 2, p. 183.  
**Callidryas eubule**. L.  
 1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 5.  
 1833. Larva, (col'd fig.) *Boisduval-Leconte*. Hist. Lep. N. Amer., p. 74, pl. 24.  
 1836. Larva, chrysalis, (col'd figs.) *Boisduval*. Spec. Gener. Diurnæ, vol. 1, pp. 614-615, pl. 2.  
 1842. Larva, (col'd fig.) *Duncan*. Natural. Libr., vol. 21, p. 123.  
 1862. Larva. *Morris*, (quotes Boisduval.) Synop. Lep. N. Amer., p. 26.  
 1873. Larva, (brief.) *Butler*, (quotes Abb.-Sm.) Monogr. Callidryas, p. 14.  
 1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 115.

FOOD PLANT. *Cassia*.**Callidryas sennæ.** L.1725. Larva, chrysalis. *Sloan*. Hist. Jamaica, p. 212.1832. Larva, chrysalis, (col'd figs.) *Poey*. Cent. Lep. Cubana.1855. Larva, chrysalis. *Sepp*. Surinamsche Vluiders, 1, p. 19, (no Pap. Hyperici.)1873. Larva, chrysalis. *Butler*, (quotes *Sloan*.) Monogr. Callidryas, p. 17.1873. Larva, chrysalis. *Butler*, (quotes *Sepp*.) Monogr. Callidryas, p. 16.1886. Larva, (brief.) *French*. Butt. East. U. States, p. 123.FOOD PLANT. *Cassia*.**Callidryas philea.** L.1873. Larva, chrysalis, (brief.) *Butler*. Monogr. Callidryas, p. 22.1888. Chrysalis. *Hy. Edwards*. Entom. Amer., vol. 3, p. 162.**Colias eurydice.** Bdv.1876. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 7, p. 61.1883. Life history. *W. H. Edwards*. Canad. Entom., vol. 15, p. 224.FOOD PLANT. *Amorpha californica*.**Colias cæsonia.** Stoll.1833. Larva. *Boisduval—Leconte*. Hist. Lep. N. Amer., p. 67, pl. 22.1836. Larva. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 636.1862. Larva. *Morris*, (quotes *Bois.—Lec.*) Synop. Lep. N. Amer., p. 27.1874. Larva. *Hy. Edwards*, (quotes *Boisduval*.) Proc. Cal. Acad. Sc., vol. 5, p. 327.1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 78, App.1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 106.1886. Larva, (brief.) *French*. Butt. East. U. States, p. 128.1888. Life history. *W. H. Edwards*. Canad. Entom., vol. 20, p. 21.FOOD PLANTS. *Trifolium*, *Amorpha*.**Colias meadii.** Edw.1889. Life history. *W. H. Edwards*. Canad. Entom., vol. 21, p. 41.**Colias eurytheme.** Bdv.1869. Egg, larva, chrysalis. *W. H. Edwards*, (quotes *J. K. Hayhurst*.) Butt. N. Amer., 2d series, *Colias* No. 3.1872. Egg, larva, chrysalis. *W. H. Edwards*. Supplem. Notes to Butt. N. Amer.1878. Egg, larval stages, (figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, *Colias* No. 4.1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 78, App.1886. Life history, (condensed.) *G. H. French*. Butt. East. U. States, p. 131.FOOD PLANT. *Trifolium*.**Colias hagenii.** Edw.1883. Life history. *W. H. Edwards*. Papilio, vol. 3, p. 163.FOOD PLANT. *Trifolium*.**Colias philodice.** Godt.1857. Larva, (brief). *Anonymous*. Canad. Nat. and Geolog., vol. 2, p. 318.1862. Larva, chrysalis, (fig'd.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 272.1869. Egg. *Saunders*. Canad. Entom., vol. 1, p. 54.1870. Larva. *Riley*. 2d Missouri Rept., p. 116.1870. Larva, chrysalis. *Saunders*. Canad. Entom., vol. 1, p. 55.1873. Larva, chrysalis. *Saunders*. Canad. Entom., vol. 5, p. 222.1874. Egg, larva, chrysalis. *Saunders*. Rept. Entom. Soc. Ontario, p. 27.1876. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, *Colias* No. 3.1880. Larva. *Miss N. Middleton*. Trans. Dept. Agr. Ill., vol. 18, p. 78, App.1881. Egg, larva, chrysalis, (figs.) *Scudder*. Butt., their structure, etc., pp. 8, 42, 116.1882. Life history, (brief.) *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 48.

1884. Egg, larva, chrysalis. *Fernald*. Butt. of Maine, p. 31.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 134.  
 FOOD PLANTS. *Trifolium*, *Astragalus*.

**Colias scudderii**. Reak.

1872. Young larva. *W. H. Edwards*. Butt. N. Amer., *Colias*, No. 8.

**Colias alexandra**. Edw.

1872. Egg. *W. H. Edwards*. Butt. N. Amer., Supplementary part.

**Colias harfordii**. (incl. *C. Barbara* ♀.)

1884. Life history. *W. H. Edwards*. *Papilio*, vol. 4, p. 2.  
 FOOD PLANT. *Astragalus crotalaria*.

**Terias nicippe**. Cram.

1833. Larva, (col'd fig.) *Titian Peale*. Lep. Amer., pl. 8.  
 1833. Larva. *Boisduval—Leconte*. Hist. Lep. N. Amer., p. 55, pl. 20.  
 1836. Larva, chrysalis. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 654.  
 1855. Larva, chrysalis. *Townsend Glover*. Trans. N. York State Agr. Soc., p. 105.  
 1856. Larva, chrysalis. *Chenu—Lucas*. Entom. Nat. Hist. Papillons, p. 60.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—Lec.) Synop. Lep. N. Amer., p. 33.  
 1873. Chrysalis. *Hy. Edwards*, (quotes Bois.—Lec.) Proc. Cal. Acad. Sc. vol. 5, p. 166.  
 1880. Larva. *Miss N. Middleton*, (quotes Bois.—Lec.) Trans. Dept. Agr. Ill., vol. 18, p. 79, App.  
 1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 83.  
 1881. Life history. *W. H. Edwards*. Canad. Entom., vol. 13, p. 61.  
 1881. Chrysalis. *Scudder*. Butt., their structure, etc., p. 184.  
 1886. Larva, chrysalis. *French*. Butt. East. U. States, p. 137.  
 FOOD PLANT. *Cassia*.

**Terias lisa**. Bdv.

1833. Larva, chrysalis, (col'd fig.) *Bois.—Lec.* Hist. Lep. N. Amer., p. 53, pl. 19.  
 1836. Larva, chrysalis, (col'd fig.) *Boisduval*. Spec. Gener. Rhopaloc., vol. 1, pl. 2, p. 662.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 34.  
 1874. Larva, chrys, (brief.) *Hy. Edwards*, (quotes Boisduval.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1880. Larva. *Miss Middleton*, (quotes Bois.) Trans. Dept. Agr. Ill., vol. 18, p. 79, Append.  
 1886. Larva, (brief.) *French*. Butt. East. U. States, p. 139.  
 FOOD PLANTS. *Cassia*, *Trifolium*.

**Terias delia**. Cram.

1883. Larva. *Bois.—Lec.* Hist. Lep. N. Amer., p. 49, pl. 18.  
 1836. Larva, chrysalis. *Boisduval*. Spec. Gener. Diurnæ, vol. 1, p. 664.  
 1862. Larva. *Morris*, (quotes Bois.) Synop. Lep. N. Amer., p. 35.  
 1874. Larva, chrys, (brief.) *Hy. Edwards*, (quotes Boisduval.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1886. Larva, (brief.) *French*. Butt. East. U. States, p. 140.  
 FOOD PLANTS. *Cassia*, *Trifolium*.

**Heliconia charitonia**. L.

1850. Larva. *P. H. Gosse*. Note in Doubleday. Gen. Diur. Lep., vol. 1, p. 97.  
 1879. Larva, chrysalis. *Dewitz*. Zeitsch. gesament. natur.  
 1881. Larva. *W. H. Edwards*. *Papilio*, vol. 1, p. 209.  
 1881. Larva. *W. H. Edwards*. Canad. Entom., vol. 13, p. 158.  
 1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 21.  
 1882. Life history. *W. H. Edwards*. Butt. N. Amer., 2d series, part 10.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 142.  
 FOOD PLANT. *Passiflora*.

**Danaia archippus.** Latr.

1797. Larva, chrysalis, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 6.  
 1828. Larva, chrys., (fig.) *Say*. Amer. Entom., vol. 3, pl. 51.  
 1833. Larva, (col'd figs.) *T. Peale*. Lep. Americana, pl. 7.  
 1833. Larva, chrys., (col'd figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 137, pl. 40.  
 1840. Larva, chrys., (figs.) *Westwood*. Intr. Mod. Class. Ins., vol. 2, p. 352.  
 1854. Larva, chrys., (col'd figs.) *Emmons*. Nat. Hist. N. York, vol. 5, pl. 38.  
 1857. Larva, chrys., (fig.) *Anon.* Canad. Nat. and Geol., vol. 2, p. 351.  
 1859. Larva, chrys. *P. H. Gosse*. Letters from Alabama, p. 185.  
 1862. Larva, chrys. *Morris*, (quotes *Bois.-Lec.*) Synop. Lep. N. Amer., p. 38.  
 1862. Larva, pupa. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 280.  
 1869. Larva, chrysalis. *Saunders*. Canad. Entom., vol. 1, p. 75.  
 1870. Egg, chrysalis. *Saunders*. Canad. Entom., vol. 2, p. 148.  
 1871. Life history, (figs.) *Riley*. 3d Missouri Rept., p. 144.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 166.  
 1873. Life history. *Saunders*. Canad. Entom., vol. 5, p. 4.  
 1876. Life history, (brief.) *W. H. Edwards*. Canad. Entom., vol. 8, p. 119.  
 1878. Life history. *W. H. Edwards*. Psyche, vol. 2, p. 176.  
 1878. Larva, chrys. *H. Dewitz*. Wiegmann Archiv. Naturgesch., p. 9, pl. 1.  
 1878. Larva, chrysalis. *Dewitz*. Zeitsch. gesament. natur.  
 1879. Larva, chrys., (figs.) *Mrs. I. P. Ballard*. Insect Lives, p. 24.  
 1879. Larva, chrys. *Dewitz*. Zeitsch. gesament. natur.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.  
 1880. Larva, (fig.) *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 80.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 23.  
 1881. Egg, larva, (figs.) *Scudder*. Butt., their structure, etc., pp. 10, 18, figs. 17, 18, 22.  
 1881. Chrysalis, (fig.) *Scudder*. Loc. cit., p. 44, fig. 61.  
 1884. Egg, larva, chrysalis, (figs.) *Fernald*. Butt. Maine, p. 35.  
 1885. Larva, chrys. *Hy. Edwards*. Kingsley's Stand. Nat. Hist., vol. 2, p. 492.  
 1886. Life history, (condensed), (figs.) *French*. Butt. East. U. States, p. 144.  
 1886. Chrysalis, (fig.) *Grote*. 18th Rept. Entom. Soc. Ontario, p. 74.  
 1888. Larval stages, (fig.) *Lintner*. 4th Rept. N. Y. State Entom., p. 136.

FOOD PLANT. *Asclepias*.

**Danaia berenice.** Cram.

1833. Larva, chrys., (figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 134, pl. 39.  
 1862. Larva, chrys. *Morris*, (quotes *Bois.-Lec.*) Synop. N. Amer. Lep., p. 37.  
 1874. Larva, chrys. *Hy. Edwards*, (quotes *Boisduval*.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 25.  
 1886. Larva, chrys. *French*. Butt. East. U. States, p. 146.

FOOD PLANTS. *Nerium*, *Asclepias*.

**Agraulis vanillæ.** Cr.

1769. Larva, chrys. *Abbot-Smith*. Lep. Ins. Georgia, pl. 12.  
 1833. Larva, chrys., (figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 143, pl. 42.  
 1855. Larva, chrysalis. *Townend Glover*. Trans. N. York State Agr. Soc., p. 106.  
 1862. Larva, chrysalis. *Morris*, (quotes *Bois.-Lec.*) Synop. Lep. N. Amer., pp. 40, 41.  
 1874. Larva, chrys. *Hy. Edwards*, (quotes *Boisduval*.) Proc. Cal. Acad. Sc., vol. 5, p. 327.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, App., p. 80.  
 1880. Life history. *W. H. Edwards*. Canad. Entom., vol. 12, p. 122.  
 1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 57.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 148.

FOOD PLANT. *Passiflora*.

**Argynnis idalia.** Drury.

1875. Egg, young larva. *W. H. Edwards.* Canad. Entom., vol. 7, p. 151.  
 1879. Life history, (brief.) *W. H. Edwards.* Canad. Entom., vol. 11, p. 217.  
 1880. Larva. *Coquillett*, (quotes Edw.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 162.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.  
 1884. Egg, larva. *Fernald.* Butt. Maine, p. 37.  
 1886. Life history, (condensed.) *French.* Butt. East. U. States, p. 150.

**Argynnis diana.** Cram.

1872. Egg, (brief.) *W. H. Edwards.* Butt. N. Amer., Supplementary part.  
 1874. Larva. *W. H. Edwards.* Canad. Entom., vol. 6, p. 121.  
 1876. Life history, (col'd figs.) *W. H. Edwards.* Butt. N. Amer., 2d series, pl. 7 of *Argynnis*.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.  
 1886. Life history, (condensed.) *French.* Butt. East. U. States, p. 153.

**Argynnis cybele.** F.

1872. Egg. *W. H. Edwards.* Butt. N. Amer., supp. part.  
 1872. Larva, chrysalis. *Saunders.* Canad. Entom., vol. 4, p. 121.  
 1874. Larva. *W. H. Edwards.* Canad. Entom., vol. 6, p. 121.  
 1876. Life history. *W. H. Edwards.* Butt. N. Amer., 2d series, pl. *Argynnis*, No. 7.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.  
 1880. Life history. *W. H. Edwards.* Canad. Entom., vol. 12, p. 141.  
 1886. Life history, (condensed.) *French.* Butt. East. U. States, p. 155.

**Argynnis aphrodite.** F.

1868. Larva, (brief.) *W. H. Edwards*, (quotes D. W. Beadle in lit.) Butt. N. Amer., 1st series, pl. *Argynnis*, No. 3.  
 1874. Larva. *W. H. Edwards.* Canad. Entom., vol. 6, p. 121.  
 1876. Life history. *W. H. Edwards.* Butt. N. Amer., 2d series, pl. *Argynnis*, No. 7.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 81.

**Argynnis hesperis.** W. H. Edwards.

1888. Life history. *W. H. Edwards.* Canad. Entom., vol. 20, p. 67.

**Argynnis edwardsii.** Reakirt.

1888. Life history. *W. H. Edwards.* Canad. Entom., vol. 20, p. 3.

**Argynnis alcestis.** Edw.

1879. Life history. *W. H. Edwards.* Canad. Entom., vol. 12, p. 69.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 82.  
 1886. Life history. *French.* Butt. East. U. States, p. 159.

**Argynnis atlantis.** Edw.

1868. Larva, (brief.) *W. H. Edwards*, (quotes C. H. Shurtleff in lit.) Butt. N. Amer., pl. *Argynnis*, No. 5.  
 1869. Larva, chrysalis. *Packard.* Guide to Study of Ins., p. 252.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 82.  
 1881. Chrysalis, (fig.) *Scudder.* Butt., their structure, etc., p. 150.  
 1886. Chrysalis, (fig.) *French.* Butt. East. U. States, p. 161.  
 1888. Life history. *W. H. Edwards.* Canad. Entom., vol. 20, p. 3.

**Argynnis eurynome.** Edw.

1875. Egg, (col'd fig.) *W. H. Edwards.* Butt. N. Amer., 2d series, pl. *Argynnis*, No. 1.

**Argynnis egleis.** Bois.

1879. Larva. *W. H. Edwards.* Canad. Entom., vol. 11, p. 53.  
 1879. Life history. *W. H. Edwards.* Canad. Entom., vol. 11, p. 177.  
 1880. Larva. *D. W. Coquillett*, (quotes Edwards.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 164.

**Argynnis myrina.** Cram.

1869. Life history. *Saunders*. *Canad. Entom.*, vol. 1, p. 55.  
 1869. Larva, chrysalis. *Packard*, (quotes *Saunders*.) *Guide to Study of Ins.*, p. 254.  
 1874. Larva, chrysa. *Hy. Edwards*, (quotes *Saunders*.) *Proc. Cal. Acad. Sc.*, vol. 5, p. 328.  
 1875. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 7, p. 189.  
 1876. Life history, (additional notes.) *W. H. Edwards*. *Canad. Entom.*, vol. 8, p. 161.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 82.  
 1880. Larva. *D. W. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 161.  
 1881. Egg, (fig.) *Scudder*. *Butt.*, their structure, etc., p. 8.  
 1881. Larval stages, (fig.) *Gruber*. *Jena Zeitschr. Nat.*, copied in *Papilio*, vol. 4, p. 91.  
 1884. Egg, larva, chrysalis, (figs.) *Fernald*. *Butt. Maine*, p. 41.  
 1886. Egg, larva, chrysalis, (figs.) *French*. *Butt. East. U. States*, p. 162.

**Argynnis montinus.** Seud.

1874. Life history, (figs.) *Scudder*. *Geology N. Hampsh.*, pl. v.

**Argynnis bellona.** Fab.

1871. Egg. *Scudder*. *Rept. Peabody Acad. Sc.*, p. 49.  
 1872. Life history. *Scudder*. *Amer. Naturalist*, vol. 6, p. 513.  
 1880. Life history, (notes on.) *W. H. Edwards*. *Papilio*, vol. 1, p. 134.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 83.  
 1880. Larva. *D. W. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 183.  
 1884. Larva. *Fernald*. *Butt. Maine*, p. 41.  
 1888. Chrysalis. *Hy. Edwards*. *Entom. Amer.* vol. 3, p. 162.

FOOD PLANTS (of all the species of *Argynnis*). *Viola* of various species.

**Euptoieta claudia.** Cram.

1833. Larva, chrysalis, (figs.) *Bois.-Lec.* *Hist. Lep. N. Amer.*, p. 153, pl. 41.  
 1855. Larva, chrysalis. *Townsend Glover*. *Trans. N. Y. State Agr. Soc.*, p. 105.  
 1862. Larva, chrysalis. *Morris*, (quotes *Bois.-Lec.*) *Synop. Lep. N. Amer.*, p. 44.  
 1870. Larva. *W. H. Edwards*. *Canad. Entom.*, vol. 2, p. 163.  
 1875. Egg, larva. *T. L. Mead*. *Rept. Lepid. Wheeler Survey*, vol. 5, p. 751.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 80.  
 1880. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 12, p. 231.  
 1884. Larva, chrysalis. *Fernald*, (quotes *W. H. Edwards*.) *Butt. Maine*, p. 43.  
 1886. Life history, (brief.) *French*. *Butt. East. U. States*, p. 166.

FOOD PLANTS. *Viola*, *Passiflora*, *Sedum*, *Desmodium*, *Portulaca*.

**Melitæa phaeton.** Drury.

1868. Larva, chrysalis, (figs.) *Packard*. *Amer. Naturalist*, vol. 2, p. 219.  
 1869. Egg, larval stages. *Lintner*. 23d *Rept. N. York State Cab. Nat. Hist.*, pp. 154-157.  
 1871. Egg. *Scudder*. *Rept. Peabody Acad. Sc.*, p. 51.  
 1875. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 7, p. 150.  
 1875. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Melitæa*, No. 1.  
 1877. Larva. *Scudder*. *Psyche*, vol. 1, p. 18.  
 1877. Larva, chrysalis, (col'd fig.) *Packard*. *Half hours with Insects*.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 83.  
 1881. Egg, (fig.) *Scudder*. *Butt.*, their structure etc., p. 9.  
 1881. Web and nest. *Scudder*, (quotes *Edwards*.) *Butt.*, their structure, etc., p. 106.  
 1884. Larva—notes on. *W. H. Edwards*. *Papilio*, vol. 4, p. 68.  
 1884. Larval stages, (figs.) *Gruber*. *Jena Zeitschr. Nat.*, p. 17, pl. 8.  
 1884. Larval stages, (figs.) *Gruber*. *Loc. cit.* copied in *Papilio*, vol. 4, p. 87.  
 1884. Egg, larva, chrysalis, (fig.) *Fernald*. *Butt. Maine*, p. 44.

1886. Life history, (figs.) *French*. Butt. East. U. States, p. 169.

FOOD PLANTS. *Chelonia glabra*, *Lonicera ciliata*.

**Melitæa cooperi**. Behr.

1863. Larva. Behr. Proc. Cal. Acad. Sc., vol. 3, p. 90.

**Melitæa chalcodon**. Doub.-Hew.

1863. Larva, chrysalis. Behr. Proc. Cal. Acad. Sc., vol. 3, p. 89.

1871. Larva, chrysa., (col'd figs.) *W. H. Edwards*. Butt. N. Amer., pl. *Melitæa*, No. 1.

1873. Larva, chrysalis. Hy. Edwards. Proc. Cal. Acad. Sc., vol. 5, p. 167.

1883. Egg, larva. *W. G. Wright*. Papilio, vol. 3, p. 123.

1884. Larva and partial history. *W. H. Edwards*. Papilio, vol. 4, p. 63.

1885. Chrysalis. Hy. Edwards. Kingsley's Stand. N. Hist., vol. 2, p. 486.

FOOD PLANTS. *Mimulus*, *Castilleja*.

**Melitæa nubigena**. Behr.

1875. Larva, chrysalis. *T. L. Mead*. Rept. Lep. Wheeler Survey, vol. 5, p. 758.

**Melitæa baroni**. Hy. Edw.

1879. Larval stages. *W. H. Edwards*. Canad. Entom., vol. 11, p. 149.

1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 129.

1880. Larva. *Coquillett*, (quotes Edwards.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 163.

FOOD PLANTS. Species of *Scrophulariaceæ*.

**Melitæa rubicunda**. Hy. Edw.

1885. Larval stages. *W. H. Edwards*. Canad. Entom., vol. 17, p. 155.

FOOD PLANT. *Scrophularia*.

**Melitæa editha**. Bois.

1873. Larva, chrysalis. Hy. Edwards. Proc. Cal. Acad. Sc., vol. 5, p. 167.

FOOD PLANTS. *Erodium cicutarium*, *Trifolium*, *Viola*.

**Melitæa palla**. Bois.

1873. Larva, chrysalis. Hy. Edwards. Proc. Cal. Acad. Sc., vol. 5, p. 167.

FOOD PLANT. *Casteleja breviflora*.

**Melitæa harrisii**. Scud.

1877. Life history. *W. H. Edwards*. Canad. Entom., vol. 9, p. 165.

1877. Larva. *Scudder*. Psyche, vol. 1, p. 18.

1880. Larva. *Coquillett*, (quotes Edwards.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 162.

1881. Chrysalis, (fig.) *Scudder*. Butt., their structure, etc., p. 32.

1884. Life history. *French*. Butt. East. U. States, p. 170.

1884. Larva, chrysalis, (figs.) *French*. Butt. East. U. States, p. 170.

FOOD PLANT. *Diplopappus umbellatus*.

**Melitæa minuta**. Edw.

1879. Chrysalis. *W. H. Edwards*. Canad. Entom., vol. 11, p. 141.

**Melitæa ismeria**. Bois.-Lec.

NOTE.—There is still some doubt as to this species. I therefore give the references to its early stages.

1833. Larva, chrysalis, (figs.) *Bois.-Lec*. Hist. Lep. N. Amer., p. 168, pl. 46.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Am., p. 50.

**Phyciodes nycteis**. Doub.-Hew.

1869. Life history, (figs.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 158, pl. 8.

1870. Larva. *W. H. Edwards*, (as *P. Harrisii*.) Canad. Entom., vol. 2, p. 163.

1872. Egg. *Saunders*, (as *M. Harrisii*.) Canad. Entom., vol. 4, p. 161.

1872. Larval stages. *Saunders*, (as *M. Harrisii*.) Loc. cit., p. 162.

1872. Larva. *Lintner*. Entom. Contrib., No. 1, p. 26.

1873. Larva. *W. H. Edwards*. Canad. Entom., vol. 5, p. 224.

1874. Larva, chrysalis. *Riley*. Proc. Amer. Ass. Adv. Sc., p. 108.

1875. Larva, chrysalis. *W. H. Edwards*. Canad. Entom., vol. 7, p. 151.

1879. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 101.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 83.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 165.  
 1884. Life history. *Gruber*. *Jena Zeitschr. Nat.*, vol. 17, p. 478, pl. 8. Copied in *Papilio*, vol. 4, p. 90.  
 1884. Life history, (brief.) *Fernald*. *Butt. Maine*, p. 46.  
 1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 172.  
 FOOD PLANTS. Species of *Helianthus* and *Actinomeris*.
- Phyciodes vesta**. Edw.  
 1879. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 2, p. 129.
- Phyciodes camillus**. Edw.  
 1884. Life history. *W. H. Edwards*. *Papilio*, vol. 4, p. 128.  
 FOOD PLANT. *Aster* of various species.
- Phyciodes tharos**. Drury. (incl. vars.)  
 1862. Chrysalis. *Harris*. *Ins. Inj. Vegetat.*, Flint's ed., p. 290.  
 1875. Life history. *T. L. Mead*. *Canad. Entom.*, vol. 7, p. 161.  
 1877. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 9, pp. 1-51.  
 1878. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Phyciodes*, No. 1.  
 1878. Life history, (figs.) *Gruber*. *Jena Zeitschr. Nat.*, vol. 17, p. 477, pl. 8.  
 1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append. p. 83.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 163.  
 1884. Larval stages. *Gruber*. *Jena Zeitschr. Nat.*, vol. 17, copied in *Papilio*, vol. 4, pp. 90-120.  
 1884. Egg, larva. *Fernald*. *Butt. Maine*, p. 48.  
 1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 178.  
 FOOD PLANT. *Actinomeris helianthoides*.
- Phyciodes mylitta**. Edw.  
 1873. Larva, chrysalis. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, vol. 5, p. 167.  
 1875. Larva, chrysalis. *T. L. Mead*, (quotes Hy. Edwards.) *Rept. Lep. Wheeler Expt.*, vol. 1, p. 764.  
 FOOD PLANTS. *Carduus* (thistle) of various species.
- Phyciodes picta**. Edw.  
 1884. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 16, p. 163.
- Eresia texana**. Edw.  
 1879. Larval stages, chrysalis. *W. H. Edwards*. *Canad. Entom.* vol. 11, p. 127.  
 1880. Larva. *Coquillett*, (quotes Edwards.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 164.
- Synchlœ (Coatiantona) janais**. Drury.  
 1883. Larva, chrysalis. *W. Schaus, jr.* *Papilio*, vol. 3, p. 188.  
 1888. Chrysalis. *Hy. Edwards*. *Entom. Amer.*, vol. 3, p. 161.
- Grapta interrogationis**. Fab. (includ. vars.)  
 1833. Larva, chrysalis, (figs.) *Bois.-Lec.*, (as *V. c-aureum*.) *Hist. Lepid. N. Amer.*, p. 192, pl. 51.  
 1840. Larva, chrysalis. *P. H. Gosse*. *Canad. Naturalist*, p. 280, (as *G. c-aureum*.)  
 1841. Larva, chrysalis. *Harris*. *Inj. Ins. Vegetat.*, 1st edit., p. 220.  
 1852. Larva, chrysalis. *Harris*. *Inj. Ins. Vegetat.*, 2d edit., p. 240.  
 1854. Larva, (col'd fig.) *Emmons*. *Nat. Hist. N. York*, vol. 5, pl. 35.  
 1862. Larva, chrysalis. *Harris*. *Ins. Inj. Vegetat.*, Flint's ed., p. 300.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) *S. nop. Lep. N. Amer.*, p. 54.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 280.  
 1869. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 76.

1871. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. *Grapta*, Nos. 4, 5.
1877. Larva, chrysalis. *Packard*. Inj. Ins. West, Hayden Rept., p. 774.
1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 152.
1880. Larva. *Miss Middleton*. Trans. Dept. Agr., Ill., vol. 18, Append., p. 84.
1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 164.
1881. Chrysalis, (fig.) *Scudder*. Butt., their structure, etc., p. 258.
1881. Larva, chrysalis. *Packard*, (quotes Saunders.) Ins. Inj. to Forest Trees, p. 65.
1882. Life history. *W. H. Edwards*. Canad. Entom., vol. 14, p. 201.
1884. Egg, larva, chrysalis. *Fernald*. Butt. Maine, p. 49.
1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 184.
1886. Chrysalis, (fig.) *French*. Butt. East. U. States, p. 184.
- FOOD PLANTS. *Humulus*, *Ulmus*, *Urtica*.

***Grapta comma*. Harris, (incl. vars.)**

1840. Larva, chrysalis. *P. H. Gosse*. Canad. Naturalist, pp. 221, 226, 280.
1841. Chrysalis. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 221.
1852. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 211.
1856. Larva. *Fitch*. 3d Rept. Ins. N. Y., p. 432.
1862. Larva, chrysalis. *W. H. Edwards*. Proc. Entom. Soc. Philad., vol. 1, p. 182.
1862. Chrysalis, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 301, pl. 4.
1862. Chrysalis. *Morris*. Synop. Lep. N. Amer., p. 54.
1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 55.
1871. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series., pl. *Grapta*, No. 2.
1871. Larva, chrysalis, (col'd figs.) *W. H. Edwards*, (var. *dryas*.) Loc. cit., pl. *Grapta*, No. 3.
1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 152.
1877. Larva. *Packard*. Inj. Ins. West, Hayden's Rept., p. 774.
1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 84.
1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 163.
1881. Larva, chrysalis. *Packard*, (quotes W. H. Edwards.) Ins. Inj. Forest Trees, p. 66.
1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 99.
1882. Life history. *W. H. Edwards*. Canad. Entom., vol. 14, p. 189.
1884. Egg, larva, chry. *Fernald*. Butt. Maine, p. 51.
1886. Life history. *French*. Butt. East. U. States, p. 186.
- FOOD PLANTS. *Humulus*, *Ulmus*, *Urtica*.

***Grapta satyrus*. Edw.**

1872. Larva, chrysalis, (col'd fig.) *W. H. Edwards*, (quotes Stretch M. S.) Butt. N. Amer., 2d series, pl. *Grapta*, No. 6.
1873. Larva. *Hy. Edwards*, (quotes Stretch, MS.) Proc. Cal. Acad. Sc., vol. 5, p. 168.
1873. Chrysalis. *Hy. Edwards*. Loc. cit., p. 168.
1875. Larva. *C. W. Pearson*. Canad. Entom., vol. 7, p. 216.
- FOOD PLANT. *Urtica*.

***Grapta rusticus*. Edw.**

1879. Larva, chrysalis, (col'd fig.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. *Grapta*, No. 3.

***Grapta faunus*. Edw.**

1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 58.
1875. Larva. *Caulfield*. Canad. Entom., vol. 7, p. 49.
1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 84.
1881. Chrysalis, (fig.) *Scudder*. Butt., their structure, etc., p. 42.
1884. Egg, larva. *Fernald*. Butt. Maine, p. 52.

1884. Chrysalis, (fig.) *Fernald*. Loc. cit., p. 52.  
 1886. Larva. *French*. Butt. East. U. States, p. 188.  
 1886. Chrysalis, (fig.) *French*. Loc. cit., p. 188.  
 FOOD PLANT. *Salix*.
- Grapta silvius*. Edw.**  
 1873. Larva, chrysalis. *Hy. Edwards*, (as *G. zephyrus* in error.) Proc. Cal. Acad. Sc., vol. 5, p. 169.  
 FOOD PLANT. *Azulca occidentalis*.
- Grapta zephyrus*. Edw.**  
 1879. Larva, chrysalis, (col'd fig.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. *Grapta*, No. 3.
- Grapta progné*. Cram.**  
 1840. Larva, chrys. *P. H. Gosse*. Canad. Naturalist, p. 249, (as *G. e-argenteum*.)  
 1841. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 222.  
 1852. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 242.  
 1856. Larva, chrysalis. *Fitch*. 3d Rept. Ins. N. York, p. 430.  
 1862. Chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 301.  
 1869. Larva, (brief.) *Harris*. Entom. Corres., p. 280.  
 1871. Larva, chrysalis. *Le Baron*. 2d Illinois Rept., p. 59.  
 1871. Egg. *Scudder*. Rept. Peabody Acad. Sc., p. 34.  
 1871. Larva, (brief.) *Saunders*. Rept. Entom. Soc. Ontario, p. 376.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 85.  
 1880. Life history. *W. H. Edwards*. Canad. Entom., vol. 12, p. 9.  
 1881. Larva. *Packard*, (quotes *Fitch*.) Ins. Inj. Forest Trees, p. 66.  
 1883. Larva, chrysalis. *Saunders*. Ins. Inj. Fruits, p. 347.  
 1884. Egg, larva, chrysalis. *Fernald*. Butt. Maine, p. 54.  
 1886. Life history. *French*. Butt. East. U. States, p. 191.  
 FOOD PLANT. *Ribes* of various species.
- Grapta j. album*. Bois.-Lec.**  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 58.  
 1884. Larva, chrysalis. *Fernald*. Butt. Maine, p. 55.  
 1886. Larva, chrysalis. *French*. Butt. East. U. States, p. 193.
- Vanessa antiopa*. F.**  
 1828. Larva, chrys., (brief.) *Stephens*. Ill. Brit. Entom., Haust., vol. 1, p. 45.  
 1840. Larva, chrys. *P. H. Gosse*. Canad. Naturalist, p. 294.  
 1841. Larva, chrys. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 219.  
 1842. Larva, (brief.) *Duncan*. Natural. Library, vol. 6, p. 169.  
 1852. Larva, chrys. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 238.  
 1854. Larva, chrys., (col'd figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 207, pl. 6.  
 1855. Larva, chrys., (col'd figs.) *Westwood*. Brit. Butt., p. 50, pl. 7.  
 1856. Larva, chrys. *Chenu—Lucas*. Encyc. Nat. Hist. Papillons, vol. 1, p. 103.  
 1857. Larva, chrys., (brief.) *H. T. Stainton*. Brit. Butt., Moths, vol. 1, p. 39.  
 1859. Larva, chrys. *Edward Newman*. Butt. Young England, p. 9.  
 1862. Larva, chrys., (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 297.  
 1864. Larva, chrys. *Jaeger*. Life N. Amer. Ins., p. 202.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 59.  
 1869. Larva. *Harris*. Entom. Corres., p. 280.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 75.  
 1871. Egg. *Scudder*. Rept. Peabody Acad. Sc., p. 40.  
 1878. Larva, chrysalis, (brief.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 265.  
 1879. Larva, chrysalis, (fig.) *Mrs. I. P. Ballard*. Insect Lives, p. 40.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 85.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 163.

1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 98.  
 1881. Larva, chrysalis, (fig.) *Scudder*. Loc. cit., p. 37.  
 1881. Larva, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 64.  
 1882. Larva, chrysalis. *W. F. Kirby*. Europ. Butt. and Moths, p. 12.  
 1884. Egg, (fig.) *Fernald*. Butt. Maine, p. 56.  
 1884. Larva, chrysalis. *Fernald*. Loc. cit., p. 56.  
 1885. Egg, larva. *Hy. Edwards*. Kingsley's Stand. N. Hist., vol. 2, p. 487.  
 1886. Egg, (fig.) *French*. Butt. East. U. States, p. 194.  
 1886. Larva, chrysalis. *French*. Loc. cit., p. 194.  
 FOOD PLANT. *Salix*.

***Vanessa californica*. Bois.**

1863. Larva, (brief.) *Behr*. Proc. Cal. Acad. Sc., vol. 3, p. 123.  
 1875. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 123.  
 FOOD PLANT. *Ceanothus thyrsiflorus*.

***Vanessa milbertii*. Godt.**

1840. Larva. *F. H. Gosse*. Canad. Naturalist, pp. 107, 221.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 303.  
 1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 28.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 61.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 76.  
 1873. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 170.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 85.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 99.  
 1884. Larva. *Fernald*. Butt. Maine, p. 57.  
 1885. Life history. *W. H. Edwards*. Canad. Entom., vol. 17, p. 181.  
 1886. Larva, chrysalis. *French*. Butt. East. U. States, p. 195.  
 FOOD PLANT. *Urtica*.

***Pyrameis atalanta*. L.**

1828. Larva, chrysalis, (brief.) *Stephens*. Ill. Brit. Entom., Haust., vol. 1, p. 46.  
 1842. Larva, (brief.) *Duncan*. Natural. Library, Entom., vol. 6, p. 171.  
 1855. Larva, chrysalis, (col'd fig.) *Westwood*. Brit. Butt., p. 53, pl. 8.  
 1856. Larva, chrysalis. *Chenu—Lucas*. Encyc. Nat. Hist. Papillons, vol. 1, p. 103.  
 1857. Larva. *Stainton*. Man. Brit. Butt., vol. 1, p. 38.  
 1859. Larva, chrysalis. *Edw. Newman*. Butt. Young England, p. 10.  
 1862. Larva, chrysalis, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 294.  
 1862. Larva, chrysalis. *Morris*. Synop. Lep. N. Amer., p. 59.  
 1864. Larva. *Jager*. Life N. Amer. Ins., p. 203.  
 1869. Larva. *Harris*. Entom. Corres., p. 279.  
 1873. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 169.  
 1878. Larva. *Birch*. Entom. Month. Mag., vol. 13, p. 209.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 86.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 8.  
 1881. Nest, (fig.) *Scudder*. Loc. cit., p. 109.  
 1882. Larva, chrysalis. *W. F. Kirby*. Europ. Butt. and Moths, p. 11.  
 1882. Life history. *W. H. Edwards*. Canad. Entom., vol. 14, p. 229.  
 1883. Life history, (cont'd.) *W. H. Edwards*. Loc. cit., vol. 15, p. 14.  
 1884. Egg, (fig.) *Fernald*. Butt. Maine, p. 58.  
 1884. Larva. *Fernald*. Loc. cit., p. 58.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 197.  
 1886. Egg, (fig.) *French*. Loc. cit.  
 FOOD PLANTS. *Humulus*, *Bahmeria*, *Urtica*.

***Pyrameis huntera*. F.**

1797. Larva. *Abbot—Smith*. Lep. Ins. Georgia.  
 1833. Larva, chrysalis, (col'd fig.) *Bois—Lee*. Hist. Lep. N. Amer., p. 180, pl. 48.

1862. Larva, chrysalis. *Morris*, (quotes Bois. and Lec.) Synop. Lep. N. Amer., p. 60.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 293.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 63.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 105.  
 1873. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 170.  
 1873. Chrysalis. *Hy. Edwards*, (quotes Bois.) Loc. cit., vol. 5, p. 170.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 86.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 153.  
 1884. Larva. *Fernald*. Butt. Maine, p. 58.  
 1886. Larva, chrysalis. *French*. Butt. East. U. States, p. 198.  
 FOOD PLANTS. *Gnaphalium*, *Antennaria*.

**Pyrameis cardui.** L.

1828. Larva, chrysalis, (brief.) *Stephens*. Illust. Brit. Entom., Haust., vol. 1, p. 47.  
 1842. Larva, chrysalis, (brief.) *Duncan*. Natural. Library, Entom., vol. 6, p. 176.  
 1854. Larva, chrysalis, (col'd figs.) *Emmons*. Nat. Hist. N. York., vol. 5, pl. 46.  
 1855. Larva, chrysalis, (col'd figs.) *Westwood*. Brit. Butt., p. 55, pl. 8.  
 1856. Larva, chrysalis. *Chenu—Lucas*. Encyc. Nat. Hist. Papillons, vol. 1, p. 104.  
 1857. Larva. *Stainton*. Man. Brit. Butt., p. 37.  
 1859. Larva, chrysalis. *Edw. Newman*. Butt. Young England, p. 10.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 292.  
 1862. Larva, chrysalis. *Morris*. Synop. Lep. N. Amer., p. 60.  
 1864. Larva. *Jaeger*. Life N. Amer. Insects, p. 204.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 93.  
 1869. Larva, chrysalis, (figs.) *Harris*. Entom. Corres., p. 277, pl. 1.  
 1873. Larva. *Hy. Edwards*, (quotes Stainton.) Proc. Cal. Acad. Sc., vol. 5, p. 170.  
 1876. Larva. *Scudder*. Amer. Naturalist, vol. 10, pp. 392, 602.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 87.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 153.  
 1881. Larva, (brief.) *Gundlach*. Entom. Cubana, p. 40.  
 1882. Larva, chrys. *W. F. Kirby*. Europ. Butt. and Moths, p. 13.  
 1884. Larva. *Fernald*. Butt. Maine, p. 59.  
 1886. Larva. *French*. Butt. East. U. States, p. 200.  
 FOOD PLANTS. *Cnicus*, *Carduus*, *Althæa*, *Urtica*.

**Pyrameis caryæ.** Hübn.

1863. Larva, (brief.) *Behr*. Proc. Cal. Acad. Sc., vol. 3, p. 125.  
 1874. Larval stages, chrysalis. *Hy. Edwards*. Loc. cit., vol. 5, p. 329.  
 FOOD PLANT. *Lavatera assurgentiflora*.

**Junonia cœnia.** Hübn.

1797. Larva, (col'd fig.) *Abbott—Smith*. Lep. Ins. Georgia, pl. 8.  
 1833. Larva, chrysalis, (col'd fig.) *Bois—Lec*. Hist. Lep. N. Amer., p. 182, pl. 49.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 293.  
 1873. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 171.  
 1873. Chrysalis, (brief.) *Hy. Edwards*. Loc. cit., vol. 5, p. 171.  
 1880. Larva, (brief.) *Saunders*. Rept. Entom. Soc. Ontario, p. 40.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 87.  
 1884. Larva. *Fernald*. Butt. Maine, p. 60.  
 1886. Larva. *French*. Butt. East. U. States, p. 201.  
 FOOD PLANTS. *Plantago*, *Gerardia*, *Antirrhinum*.

**Limenitis ursula.** Fab.

1833. Larva, chrysalis, (col'd figs.) *Bois—Lec*. Hist. Lep. N. Amer., p. 199, pl. 53.  
 1859. Larva, (brief.) *P. H. Gosse*. Letters from Alabama, p. 123.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—Lec.) Synop. Lep. N. Am., p. 65.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 283.

1869. Larva, chrysalis, (fig.) *Harris*. Entom. Corres., p. 276, pl. 4.  
 1871. Larva. *Riley*. Canad. Entom., vol. 3, p. 52.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 151.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 87.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 162.  
 1881. Larva stages. *W. H. Edwards*. Canad. Entom., vol. 13, p. 242.  
 1883. Larva, chrysalis, (brief.) *Saunders*. Ins. Inj. Fruits, p. 218.  
 1886. Larva, (brief.) *French*. Butt. East. U. States, p. 207.  
 FOOD PLANTS. *Vaccinium*, *Cerasus*, *Ribes*, *Quercus*, *Salix*, etc.

***Limenitis arthemis*. Drury, (incl. vars.)**

1840. Larva, chrys. (figs.) *P. H. Gosse*. Canad. Naturalist, pp. 220, 221.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 62.  
 1875. Larva. *T. L. Mead*. Canad. Entom., vol. 7, p. 163, (var. *proserpina*.)  
 1875. Life history. *T. L. Mead*. Canad. Entom., vol. 7, p. 162.  
 1877. Larva. *Scudder*. Psyche, vol. 1, p. 14.  
 1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 224.  
 1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 224, (var. *proserpina*.)  
 1879. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. *Limenitis*, No. 1.  
 1881. Nest, (fig.) *Scudder*. Butt., their structure, etc., p. 113.  
 1884. Egg, larva, chrysalis. *Fernald*. Butt. Maine, p. 62.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 208.  
 FOOD PLANTS. *Crataegus*, *Salix*.

***Limenitis disippus*. Godt.**

1833. Larva, chrysalis, (col'd figs.) *Bois.-Lec.* Hist. Lep. N. Amer., p. 204, pl. 55.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 379.  
 1862. Larva, chrysalis. *Morris*, (quotes *Bois.-Lec.*) Synop. Lep. N. Amer., p. 66.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 282.  
 1864. Larva, chrysalis. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 63.  
 1869. Larva. *Saunders*. Canad. Entom., vol. 1, p. 94.  
 1869. Larva, chrysalis. Amer. Entom., vol. 1, p. 193.  
 1871. Larva. *Riley*. Canad. Entom., vol. 3, p. 52.  
 1871. Egg, (figs.) *Riley*. 3d Missouri Rept., p. 153.  
 1871. Larva, chrysalis, (figs.) *Riley*. Loc. cit., pp. 153-157.  
 1874. Life history, (figs.) *Saunders*. Canad. Entom., vol. 6, p. 46.  
 1874. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 330.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 151.  
 1879. Life history. *W. H. Edwards*. Canad. Entom., vol. 11, p. 224.  
 1881. Nest, (fig.) *Scudder*, (quotes *Riley*.) Butt., their structure, etc., p. 112.  
 1881. Egg, (fig.) *Scudder*, (quotes *Riley*.) Loc. cit., p. 10.  
 1881. Larva, chrysalis, (figs.) *Scudder*, (quotes *Riley*.) Butt., their structure, etc., pp. 22, 45.  
 1883. Egg, larva, chrysalis, (figs.) *Saunders*. Ins. Inj. Fruits, pp. 169, 170.  
 1884. Egg, larva, chrysalis, (figs.) *Fernald*. Butt. Maine, pp. 63, 61.  
 1886. Egg, larva, chrysalis, (figs.) *French*. Butt. East. U. States, p. 211.  
 1886. Life history, (condensed.) *French*. Loc. cit., p. 211.  
 FOOD PLANTS. *Salix*, *Populus*, etc.

***Limenitis eros*. Edw.**

1880. Larval stages, chrysalis. *W. H. Edwards*. Canad. Entom., vol. 12, p. 246.  
 1883. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. *Limenitis*, No. 2.  
 1886. Life history, (condensed.) *French*. Butt. East. U. States, p. 214.

**Limenitis lorquini.** Bois.

1869. Larva, (brief.) *W. H. Edwards*, (quotes Behr. in lit.) Butt. N. Amer., pl. Limenitis, No. 3.

1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 171.

1874. Larva. *Hy. Edwards*. Loc. cit., vol. 5, p. 330.

FOOD PLANT. *Quercus*.

**Heterochroa californica.** Butler.

1873. Chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., vol. 5, p. 171.

1877. Larva, chrysalis. *Hy. Edwards*. Loc. cit.

FOOD PLANT. *Quercus*.

**Apatura clyton.** Bois.-Lee., (includ. vars.)

1833. Larva, chrysalis, (col'd figs.) *Bois.-Lee.* Hist. Lep. N. Amer., p. 208, pl. 56.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 380.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lee.) Synop. Lep. N. Amer., p. 68.

1874. Egg, larva, (figs.) *Riley*. 6th Missouri Rept., pp. 140-150, (as *A. Herse*.)

1876. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. *Apatura*, No. 2.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 155.

1880. Egg, chrysalis, (figs.) *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 89.

1881. Egg, larva, chrys., (figs.) *Scudder*, (after *Riley*.) Butt., their structure, etc., p. 262.

1881. Larva, chrys. *Gundlach*. Entom. Cubana, p. 63, (as *Doxocopa Idyja*. Hbn.)

1886. Egg, larva, chrys., (figs.) *French*, (after *Riley*.) Butt. East. U. States, p. 219.

1886. Life history, (condensed.) *French*. Loc. cit., p. 219.

FOOD PLANT. *Celtis occidentalis*.

**Apatura flora.** Edw.

1881. Life history. *W. H. Edwards*. Canad. Entom., vol. 13, p. 81.

1886. Life history, (condensed.) *French*, (quotes *W. H. Edwards*.) Butt. East. U. States, p. 222.

**Apatura celtis.** Bois.-Lee.

1833. Larva, chrysalis, (col'd figs.) *Bois.-Lee.* Hist. Lep. N. Amer., p. 210, pl. 57.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lee.) Synop. Lep. N. Amer., p. 69.

1874. Egg, (fig.) *Riley*, (as *A. lycaon*.) 6th Missouri Rept., pp. 137-150.

1874. Larva, chrysalis, (figs.) *Riley*. Loc. cit., pp. 137-150.

1875. Life history, (col'd figs.) *W. H. Edwards*. Butt. N. Amer., 2d series, pl. *Apatura*, No. 1.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 155.

1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append. p., 88.

1881. Egg, larva, (figs.) *Scudder*. Butt., their structure, etc., p. 263.

1886. Life history, (figs.) *French*. Butt. East. U. States, p. 216.

FOOD PLANT. *Celtis occidentalis*.

**Apatura alicia.** Edw.

1886. Larva, (brief.) *W. H. Edwards*. Amer. Entom., vol. 1, 2d series, p. 206.

1880. Life history. *W. H. Edwards*. Psyche, vol. 3, pp. 123-127.

**Paphia troglodyta.** Fab.

1870. Larva, chrysalis, (figs.) *Riley*. 2d Missouri Report, pp. 125-128.

1871. Larva, chrysalis, (col'd figs.) *W. H. Edwards*, (quotes *Hayhurst* in lit.) Butts. N. Am., 2d series, pl. *Paphia*, No. 1.

1873. Life history, (figs.) *Riley*. 5th Missouri Rept., pp. 145-149.

1880. Larva, chrysalis, (figs.) *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 89.

1881. Larva, nest, chrysalis, (figs.) *Scudder*, (after *Riley*.) Butt., their structure, etc., p. 111.

1886. Larva, chrysalis, (figs.) *French*. Butt. East. U. States, p. 227.

18-8. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 20, p. 41.

FOOD PLANT. *Croton capitatum*.

***Debis portlandia*. Fab.**

1825. Larva. *Say*. *N. Amer. Entomology*, vol. 2.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 226, pl. 58.

1862. Larva, chrysalis, (brief.) *Morris*, (quotes *Say*.) *Synop. Lep. N. Amer.*, p. 79, (as *D. andromacha*.)

1862. Larva, chrysalis. *Morris*, (quotes *Bois—Lee*.) *Loc. cit.*, p. 79.

1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 92.

1882. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 14, p. 84.

1884. Egg, larva, chrysalis. *Fernald*. *Butt. Maine*, p. 71.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 230.

***Neonympha canthus*. Bois.—Lee.**

1883. Egg, larval stages. *W. H. Edwards*. *Canad. Entom.*, vol. 15, p. 64.

1884. Egg, larva. *Fernald*. *Butt. Maine*, p. 68.

1885. Chrysalis. *W. H. Edwards*. *Canad. Entom.*, vol. 17, p. 112.

1886. Life history, (brief.) *French*. *Butt. East. U. States*, p. 232.

***Neonympha gemma*. Hübn.**

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 62.

1879. Life history, (figs.) *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 31.

1880. Larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 91.

1881. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 235.

***Neonympha areolatus*. Abb.—Sm.**

1797. Larva. *Abbot—Smith*. *Lep. Ins. Georgia*, vol. 1, pl. 13.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 63.

1882. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 14, p. 163.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 237.

***Neonympha eurytris*. Fab.**

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 61.

1870. Egg, larval stages. *Saunders*. *Canad. Entom.*, vol. 2, p. 139.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 156.

1878. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 10, p. 125.

1880. Egg, larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 90.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 181.

1884. Larval stages, chrysalis. *Fernald*. *Butt. Maine*, p. 67.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 238.

***Neonympha sosybius*. Fab.**

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 63.

1877. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 9, p. 229.

1880. Egg, larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 91.

1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 241.

***Cœonympha ampelos*. Edw.**

1887. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 19, p. 42.

***Satyrus alope*. Fab., (includ. vars.)**

1833. Larva, chrysalis. *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, p. 228, pl. 59.

1884. Larva, chrysalis, (col'd figs.) *Emmons*. *N. Hist. N. York, Entom.*, vol. 5, pl. 33.

1877. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 9, p. 141, (var. *nephele*.)  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 17, p. 156.  
 1880. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 12, pp. 21, 51, 90, 109.  
 1880. Larva, chrysalis. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 92.  
 1880. Egg, larva. *Miss Middleton*. *Loc. cit.*, p. 92, (var. *nephele*.)  
 1880. Larva. *Coquillett*. *Loc. cit.*, p. 180, (var. *nephele*.)  
 1881. Young larva, chrysalis, (figs.) *Scudder*. *Butt., their structure, etc.*, pp. 29-43.  
 1882. Life history, (col'd fig.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Satyrus*, 2-3, (incl. vars. *nephele-olympus*.)  
 1884. Egg, larva, chrysalis, (figs.) *Fernald*. *Butt. Maine*, p. 74.  
 1886. Chrysalis, (fig.) *French*. *Butt. East. U. States*, p. 246.  
 1886. Life history, (condensed.) *French*. *Loc. cit.*, p. 246.
- Satyrus charon.** Edw.  
 1875. Egg. *T. L. Mead*. *Rept. Lepid. Wheeler Exped.*, vol. 5, p. 773.  
 1886. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 18, p. 88.
- Chionobas iduna.** Edw.  
 1879. Egg. *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 143.  
 1879. Egg, (col'd fig.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Chionobas*, No. 3.
- Chionobas chryxus.** West.-Hew.  
 1875. Egg. *T. L. Mead*. *Rept. Lepid. Wheeler Exped.*, vol. 5, p. 777.
- Chionobas ivalida.** Mead.  
 1879. Egg, young larva. *W. H. Edwards*. *Canad. Entom.*, vol. 11, p. 142.  
 1879. Egg, young larva, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Chionobas*, No. 3.
- Chionobas semidea.** Say.  
 1863. Egg, larva, chrysalis. *Scudder*. *Charact. Insect Fauna, White Mountains*, pp. 623, 625.  
 1874. Larva, chrysalis, (figs.) *Scudder*. *Geology N. Hampshire*, pl. A.
- Chionobas jutta.** Hübn.  
 Egg, larva, (fig'd.) *Holmgren*. *Entom. Tidsch.*, vol. 7, p. 151.  
 1888. Life history. *T. W. Fyles*. *Canad. Entom.*, vol. 20, p. 131.  
 1889. Larva, notes on. *T. W. Fyles*. *Canad. Entom.*, vol. 21, p. 12.
- Chionobas macounii.** Edw.  
 1888. Egg, larva. *J. Fletcher*. *A Trip to Nepigon*, p. 12.  
 NOTE.—It is believed that the larva of the *Satyrinae* feed exclusively on various species of Grasses and Carices.
- Libythea bachmanni.** Kirtl.  
 1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. *Hist. Lep. N. Amer.*, pl. 64, (as *L. motya*.)  
 1874. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Libythea*, No. 1.  
 1881. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 13, p. 226.  
 1886. Life history, (brief.) *French*. *Butt. East. U. States*, p. 251.  
 FOOD PLANT. *Celtis*.
- Eumenia atala.**  
 1875. Larval stages, chrysalis, (figs.) *Scudder*. *Mem. Boston Soc. N. History*, vol. 2, p. 413, pl. 14.  
 1888. Life history, (figs.) *E. A. Schwartz*. *Insect Life. U. S. Dept. Agr.*, vol. 1, p. 37.  
 FOOD PLANT. *Zamia integrifolia*.
- Lemonias nals.** Edw.  
 1883. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. 11, pl. *Lemonias*, No. 1.

**Feniseca tarquinius.** Fab.

1833. Larva, chrysalis, (figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 128, pl. 37.

1886. Life history. *W. H. Edwards.* Canad. Entom., vol. 18, pp. 141-148.

1888. Egg, chrysalis, (brief.) *S. H. Scudder.* Psyche, vol. 5, p. 70.

Feeds on **Aphides**. So far, the only carnivorous lepidopterous larva known in our fauna.

**Thecla hufesius.** Cr.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 83, pl. 25.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 92.

1886. Larva, chrysalis, (brief.) *French*, (quotes Morris.) Butt. East. U. States, p. 256.

1888. Chrysalis. *Hy. Edwards.* Entom. Amer., vol. 3, p. 162.

FOOD PLANT. *Quercus*.

**Thecla m. album.** Bois.-Lec.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 88, pl. 27. (as *T. psyche*.)

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 86, pl. 26.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 93.

1880. Larva, chrysalis. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 92.

1886. Larva, chrysalis, (brief.) *French.* Butt. East. U. States, p. 256.

FOOD PLANTS. *Quercus*, *Astragalus*.

**Thecla favonius.** Abb.-Sm.

1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith.* Lep. Ins. Georgia, vol. 1, pl. 14.

1886. Larva, chrysalis, (brief.) *French*, (quotes Abb.-Sm.) Butt. East. U. States, p. 258.

FOOD PLANT. *Quercus*.

**Thecla humuli.** Harr.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 90, pl. 28, (as *T. hyperici*.)

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 99, pl. 31, (as *T. liparops*.)

1852. Larva, (brief.) *Harris.* Ins. Inj. Veget., 2d edit., p. 235.

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., pp. 96, 97, (as *T. liparops*.)

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 94, (as *T. hyperici*.)

1862. Larva, chrysalis. *Harris.* Ins. Inj. Veget., Flint's edit., p. 276.

1877. Larva. *Packard*, (quotes Harris.) Inj. Ins. West, Hayden's Rept., p. 773.

1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 92.

FOOD PLANT. *Humulus*.

**Thecla acadica.** Edw.

1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 95.

1869. Larva, (col'd fig.) *W. H. Edwards.* Butt. N. Amer., 1st series, pl. Thecla, No. 1.

1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 93.

1886. Larva. *French*, (quotes Saunders.) Butt. East. U. States, p. 261.

FOOD PLANT. *Salix*.

**Thecla calanus.** Hüb.

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., p. 92, pl. 29, (as *T. falacer*.)

1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p. 95.  
 1869. Egg. *Saunders*. Canad. Entom., vol. 1, p. 57.  
 1869. Larva, (?). *Saunders*. Canad. Entom., vol. 1, p. 98.  
 1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 61, (as *T. inorata*.)  
 1880. Larva, (?) *Miss Middleton*, (quotes *Saunders*.) Trans. Dept. Agr. Ill.,  
 vol. 18, Append., p. 93.  
 1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 85.  
 1886. Larva, chrysalis. *French*, (quotes *Saunders*.) Butt. East. U. States,  
 p. 264.

FOOD PLANT. *Quercus*.

***Thecla strigosa*. Harris.**

1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 99.  
 1869. Larva, chrysalis. *W. H. Edwards*, (quotes *Saunders*.) Butt. N. Amer.,  
 1st series, pl. *Thecla*, No. 2.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 92.  
 1883. Larva, chrysalis. *Saunders*. Ins. Inj. Fruits, p. 176.  
 1884. Larva. *Fernald*, (quotes *Saunders*.) Butt. Maine, p. 78.  
 1886. Larva, chrysalis. *French*, (quotes *Saunders*.) Butt. East. U. States,  
 p. 267.

FOOD PLANT. *Quercus*, etc.

***Thecla emilacis*. Bois.-Lec.**

1883. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. Hist. Lep. N. Amer.,  
 p. 107, pl. 33.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer.,  
 p. 99.  
 1880. Larva, chrysalis. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append.,  
 p. 93.  
 1884. Larva, chrysalis, (brief.) *Saunders*. Canad. Entom., vol. 16, p. 52.  
 1886. Larva, chrysalis, (brief.) *French*. Butt. East. U. States, p. 268.

FOOD PLANT. *Smilax rotundifolia*.

***Thecla poeas*. Hübn.**

1880. Larva, (brief.) *Riley*. Amer. Entom., vol. 1, 2d series, p. 201.  
 1880. Larva, (brief.) *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append.,  
 p. 93.

FOOD PLANT. *Gossypium*.

***Thecla irioides*. Bois.**

1878. Larva, chrysalis. *Hy. Edwards*. Proc. Cal. Acad. Sc., June.  
 FOOD PLANT. *Sedum spathulifolium*.

***Thecla irus*. Godt., (incl. vars.)**

1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. Hist. Lep. N. Amer.,  
 p. 101, pl. 31.  
 1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. Hist. Lep. N. Amer.,  
 p. 103, pl. 32, (as *T. arsace*.)  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer., p.  
 97, (as *T. arsace*.)  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.-Lec.) Synop. Lep. N. Amer.,  
 p. 97, (as *T. iris*.)  
 1880. Larva, chrysalis. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Ap-  
 pend., p. 94.

FOOD PLANT. *Vaccinium corymbosum*.

***Thecla henrici*. Grote-Rob.**

1881. Life history. *W. H. Edwards*. Papilio, vol. 1, p. 150.  
 1884. Life history, (condensed.) *Fernald*, (quotes *W. H. Edwards*.) Butt.  
 Maine, p. 81.  
 1886. Life history, (condensed.) *French*, Butt. East. U. States, p. 274.  
 FOOD PLANT. *Prunus*.

**Thecla nippon.** Hübn.

1833. Larva, chrysalis. *Boisdural—Leconte.* Hist. Lep. N. Amer., p. 105, pl. 33.  
 1858. Larva, chrysalis. *Fitch.* 4th Rept. N. Y. Agr. Soc., pp. 57, 743.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—Lec.) Synop. Lep. N. Amer., p. 98.  
 1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 96.  
 1880. Larva, chrysalis. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 94.  
 1881. Larva. *Packard*, (quotes Fitch.) Ins. Inj. Forest Trees, p. 201.  
 1884. Larva, chrysalis. *Fernald.* Butt. Maine, p. 83.  
 1884. Egg. *Fletcher.* Canad. Entom., vol. 16, p. 92.  
 1886. Larva, chrysalis, (brief.) *French.* Butt. East. U. States, p. 276.  
 FOOD PLANT. *Pinus.*

**Thecla titus.** Fab.

1833. Larva, chrysalis. *Boisdural—Leconte.* Hist. Lep. N. Amer., p. 109, pl. 34.  
 1862. Larva, chrysalis. *Morris*, (quotes Bois.—Lec.) Synop. Lep. N. Amer., p. 102.  
 1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 96.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 94.  
 1883. Larva, chrysalis. *Saunders.* Ins. Inj. Fruits, p. 219.  
 1884. Larva, chrysalis. *Fernald.* Butt. Maine, p. 84.  
 1886. Larva, chrysalis, (brief.) *French.* Butt. East. U. States, p. 278.  
 FOOD PLANT. *Quercus.*

**Chrysophanus thoe.** Bois.—Lec.

1868. Egg. *Saunders.* Canad. Entom., vol. 1, p. 57.  
 1880. Egg. *Miss Middleton*, (quotes Saunders.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 95.  
 1881. Egg, (fig.) *Scudder.* Butt., their structure, etc., p. 8.  
 1886. Egg. *French*, (quotes Saunders.) Butt. East. U. States, p. 281.  
 FOOD PLANT. *Polygonum.*

**Chrysophanus xanthoides.** Bois.

1887. Egg. *Hy. Edwards.* Entom. Amer., vol. 3, p. 162.

**Chrysophanus helioides.** Bois.

1875. Larva, chrysalis. *T. L. Mead.* Rept. Lep. Wheeler Expd., vol. 5, p. 780.

**Chrysophanus epixanihe.** Bois.—Lec.

1868. Egg. *Saunders.* Canad. Entom., vol. 1, p. 57.  
 1886. Egg. *French*, (quotes Saunders.) Butt. East. U. States, p. 282.

**Chrysophanus hypophleas.** Bois.

1840. Egg. *P. H. Gosse.* Canad. Naturalist, p. 221.  
 1862. Larva, (brief.) *Packard.* 2d Rept. Nat. Hist. Geol. Maine, p. 166.  
 1862. Larva, chrysalis. *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 274.  
 1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 4.  
 1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 95.  
 1881. Egg, larva, chrysalis, (figs.) *Scudder.* Butt., their structure, etc., pp. 7, 20, 31, 43.  
 1884. Larva, chrysalis, (figs.) *Fernald.* Butt. Maine, p. 88.  
 1885. Larva. *Hy. Edwards.* Kingsley's Stand. Nat. Hist., vol. 2, p. 476.  
 1886. Egg, larva, chrysalis, (figs.) *French*, (quotes Saunders and Scudder.) Butt. East. U. States, p. 283.

FOOD PLANT. *Rumex acetosella.*

**Lycæna lycea.** Edw.

1875. Larva, (brief.) *T. L. Mead.* Rept. Lep. Wheeler Expd., vol. 5, p. 785.

**Lycæna pambina.** Edw.

1868. Larva. *Saunders.* Canad. Entom., vol. 1, p. 12.

**Lycæna melissa.** Edw.

1884. Life history. *W. H. Edwards.* Papilio, vol. 4, p. 91.

FOOD PLANT. *Astragalus.*

**Lycæna scudderi.** Edw.1878. Larva. *Saunders*. *Canad. Entom.*, vol. 10, p. 14.1880. Larva. *Miss Middleton*, (quotes *Saunders*.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 95.FOOD PLANT. *Lupinus perennis*.**Lycæna acmon.** Doubt.-Hew.1875. Larva. *Hg. Edwards*. *Proc. Cal. Acad. Sc.*, April, (as *L. antagone*.)FOOD PLANT. *Hosackia*.**Lycæna pseudargiolus.** Bois.-Lec., (includ. vars.)1797. Larva, chrysa. *Abbot-Smith*. *Lep. Ins. Georgia*.1833. Larva, chrysalis. *Boisduval-Leconte*. *Hist. Lep. N. Amer.*, p. 118.1862. Larva, chrysalis. *Morris*, (quotes *Bois.-Lec.*) *Synop. Lep. N. Amer.*, p. 82.1868. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 100, (as *L. neglecta*.)1869. Larva, (col'd fig.) *W. H. Edwards*, (quotes *Abb.-Sm.*, *Bois.-Lec.*) *Butt. N. Amer.*, 1st series, pl. *Lycæna*, No. 2.1873. Egg, larval stages. *W. H. Edwards*. *Canad. Entom.*, vol. 5, p. 224.1875. Egg, larva. *W. H. Edwards*. *Canad. Entom.*, vol. 7, p. 81.1878. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 10, p. 12.1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 95.1880. Larva. *Miss Middleton*. *Loc. cit.*, p. 96, (as *L. neglecta*.)1883. Life history. *W. H. Edwards*. *Papilio*, vol. 3, pp. 85-97.1884. Life history, (col'd figs.) *W. H. Edwards*. *Butt. N. Amer.*, 2d series, pl. *Lycæna*, No. 2.1884. Larva, chrysalis. *Fernald*. *Butt. Maine*, p. 89, (as *L. neglecta*.)1886. Life history, (condensed.) *French*. *Butt. East. U. States*, p. 289.FOOD PLANTS. *Actinomeris*, *Cornus*, etc.**Lycæna amyntula.** Bois.1884. Life history. *W. G. Wright*. *Papilio*, vol. 4, p. 126.FOOD PLANT. *Astragalus*.**Lycæna comyntas.** Godt.1833. Larva, chrysalis, (col'd figs.) *Boisduval-Leconte*. *Hist. Lep. N. Amer.*, p. 120, pl. 36.1862. Larva, chrysalis. *Morris*, (quotes *Bois.-Lec.*) *Synop. Lep. N. Amer.*, p. 83.1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 275.1869. Larva, chrysalis. *Harris*. *Entom. corres.*, p. 275.1876. Life history. *W. H. Edwards*. *Canad. Entom.*, vol. 8, p. 202.1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 95.1884. Egg, larva. *Fernald*. *Butt. Maine*, p. 92.1886. Life history. *French*, (quotes *W. H. Edwards*.) *Butt. East. U. States*, p. 292.FOOD PLANTS. *Lespedeza*, *Phaseolus*.**Carterocephalus mandan.** Edw.1888. Egg, larva. *J. Fletcher*. *A Trip to Nepigon*, p. 12.**Ancyloxypha numitor.** Fab.1862. Chrysalis, (brief.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 308.1880. Chrysalis. *Miss Middleton*, (quotes *Harris*.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 96.1886. Chrysalis. *French*, (quotes *Harris*.) *Butt. East. U. States*, p. 301.**Pamphila zabulon.** Bois.-Lec., (includ. vars.)1868. Egg, young larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 66.1880. Larva. *Miss Middleton*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 97, (as *P. hobomok*.)1881. Egg, larva, (figs.) *Scudder*. *Butt.*, their structure, etc., pp. 7, 23.1884. Egg, larva, (figs.) *Fernald*. *Butt. Maine*, p. 95.1886. Egg, larva, (figs.) *French*. *Butt. East. U. States*, p. 304.FOOD PLANT. *Grasses*.

**Pamphila phylæus.** Drury.1879. Larva, chrysalis. *A. W. Chapman.* Canad. Entom., vol. 11, p. 190.1880. Larva. *Miss Middleton*, (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 96.1880. Larva. *Coquillett*, (quotes Chapman.) Loc. cit., p. 176.1886. Larva, chrysalis. *French*, (quotes Chapman.) Butt. East. U. States, p. 314.FOOD PLANT. *Grasses.***Pamphila brettus.** Bois.-Lec.1881. Larva, chrysalis. *Gundlach.* Entom. Cubana, p. 161.1886. Egg, larva, chrysalis. *French.* Butt. East. U. States, p. 315.FOOD PLANT. *Grasses.***Pamphila otho.** Bois.-Lec.1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., pl. 17.**Pamphila mystic.** Scud.1869. Egg, larval stages. *Saunders.* Canad. Entom., vol. 1, p. 65.1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 97.1884. Egg, larva. *Fernald.* Butt. Maine, p. 99.1886. Egg, larva. *French.* Butt. East. U. States, p. 319.FOOD PLANT. *Grasses.***Pamphila sassacus.** Harris.1880. Larva. *Miss Middleton.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 97.**Pamphila cernes.** Bois.-Lec.1888. Egg, larva. *J. Fletcher.* A Trip to Nepigon, p. 14.**Pamphila peckius.** Kby.1868. Egg, young larva. *Saunders.* Canad. Entom., vol. 1, p. 66.1880. Larva. *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 178.1884. Egg, larva. *Fernald.* Butt. Maine, p. 98.1886. Egg, larva. *Fernald.* Butt. East. U. States, p. 318.FOOD PLANT. *Grasses.***Pamphila accius.** Abb.-Smith.1879. Larva. *A. W. Chapman.* Canad. Entom., vol. 11, p. 91.1881. Chrysalis, (fig.) *Scudder.* Butt., their structure, etc., p. 42.**Pamphila maculata.** Edw.1879. Larva. *A. W. Chapman.* Canad. Entom., vol. 11, p. 191.1880. Larva. *Coquillett*, (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 176.1886. Larva, chrysalis. *French.* Butt. East. U. States., p. 330.**Pamphila ethlius.** Cram.1877. Larva. *C. R. Dodge.* Field and Forest, vol. 3, p. 73.1881. Larva, chrysalis. *Gundlach.* Entom. Cubana, p. 160.1887. Chrysalis. *Hg. Edwards.* Entom. Amer., vol. 3, p. 163.**Pamphila arpa.** Bois.-Lec.1883. Larva, chrysalis, (figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., pl. 68.1879. Larva, chrysalis. *A. W. Chapman.* Canad. Entom., vol. 11, p. 191.1886. Larva, chrysalis. *French*, (quotes Chapman.) Butt. East. U. States, p. 339.FOOD PLANT. *Saw-palmetto.***Pamphila palatka.** Edw.1883. Larva, chrysalis, (figs.) *Boisduval—Leconte.* Hist. Lep. N. Amer., pl. 67, (as *P. bulenta*.)1879. Larva. *Chapman.* Canad. Entom., vol. 11, p. 192.1880. Larva. *Coquillett*, (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 154.

1886. Larva. *French*, (quotes Chapman.) Butt. East. U. States, p. 341.  
 FOOD PLANT. *Grasses*.
- Pamphila delaware.** Edw.  
 1879. Larva, chrysalis. *A. W. Chapman*. Canad. Entom., vol. 11, p. 193  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., 96.  
 1880. Larva. *Coquillett*, (quotes Chapman.) Loc. cit., p. 174.  
 1886. Larva. *French*, (quotes Chapman.) Butt. East. U. States, p. 343.  
 FOOD PLANT. *Grasses*.
- Amblyscirtes vialis.** Edw.  
 1888. Egg, larva. *J. Fletcher*. A Trip to Nepigon, p. 15.
- Nisoniades brizo.** Bois.-Lec.  
 1833. Larva, chrysalis, (figs.) *Boisduval—Leconte*. Hist. Lep. N. America, pl. 66.
- Nisoniades icelus.** Lintn.  
 1869. Egg. *Lintner*. 3d Rept. N. Y. State Cab. N. Hist., p. 163.  
 1885. Larva, chrysalis. *W. H. Edwards*. Canad. Entom., vol. 17, p. 98.  
 1886. Egg. *French*, (quotes Lintner.) Butt. East. U. States, p. 355.  
 1888. Egg. *J. Fletcher*. A Trip to Nepigon, p. 15.  
 FOOD PLANT. *Populus tremuloides*.
- Nisoniades lucilius.** Lintn.  
 1870. Larva. *Lintner*. 24th Rept. N. Y. State Cab. N. Hist., p. 165.  
 1875. Egg, young larva. *T. L. Mead*. Canad. Entom., vol. 7, p. 163.  
 1878. Life history. *Lintner*. Entom. Contrib., No. 4, p. 67.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 97.  
 1886. Egg, larva, chrysalis. *French*. Butt. East. U. States, p. 359.  
 FOOD PLANT. *Aquilegia canadensis*.
- Nisoniades persius.** Scud.  
 1881. Nest, (fig.) *Scudder*. Butt., their structure, etc., p. 108.
- Nisoniades juvenalis.** Fab.  
 1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 21.  
 1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. Hist. Lep. N. Amer., pl. 65.  
 1862. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 309.  
 1880. Larva, chrysalis. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 97.  
 1881. Larva, chrysalis, (figs.) *Scudder*. Butt., their structure, etc., p. 114, (as *Than. ennius*.)  
 1886. Larva, chrysalis, (brief.) *French*, (quotes Harris.) Butt. East. U. States, p. 364.  
 FOOD PLANTS. *Lathyrus*, *Apios*, etc.
- Pholisora catullus.** Fab.  
 1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 24.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 98.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 9.  
 1885. Life history. *W. H. Edwards*. Canad. Entom., vol. 17, p. 245.  
 1886. Egg, (fig.) *French*. Butt. East. U. States, p. 367.  
 FOOD PLANTS. *Monarda*, *Cienopodium*, *Ambrosia*.
- Eudamus pylades.** Scud.  
 1881. Egg, (fig.) *Scudder*. Butt., their structure, etc., p. 6.  
 1884. Egg, (fig.) *Fernald*. Butt. Maine, p. 104.  
 1886. Egg, (fig.) *French*. Butt. East. U. States, p. 369.
- Eudamus bathyllus.** Abb.—Smith.  
 1797. Larva, chrysalis, (col'd figs.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 22.  
 1833. Larva, chrysalis, (col'd figs.) *Boisduval—Leconte*. Hist. Lep. N. Amer., pl. 74.  
 1880. Larva. *Miss Middleton*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 98.

**Eudamus lycidas.** Abbot-Smith.

1797. Larva, chrysalis, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 20.  
 1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer., pl. 71.

**Eudamus cellus.** Bois.-Lec.

1833. Larva, chrysalis. *Boisdural—Leconte*. Hist. Lep. N. Amer., pl. 73.

**Eudamus tityrus.** Fab.

1797. Larva, chrysalis, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 19  
 1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer., pl. 72.

1841. Larva, chrysalis. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 224.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 224.  
 1851. Larva, chrysalis, (col'd figs.) *Emmons*. Nat. Hist. N. York, pl. 832.  
 1858. Larva. *Fitch*. 5th Rept. Ins. N. York, § 330.  
 1859. Larva, nest, chrysalis. *P. H. Gosse*. Letters from Alabama, p. 85.  
 1862. Larva, chrysalis, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 311.  
 1862. Larva. *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 112.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 163.  
 1880. Egg, larva. *Miss Middleton*. Loc. cit., vol. 18, Append., p. 98.  
 1880. Larva. *Coquillett*. Loc. cit., vol. 18, Append., p. 153.  
 1881. Nest, larva, chrysalis, (figs.) *Scudder*. Butt., their structure, etc., p. 107.  
 1881. Cocoon, chrysalis, (figs.) *Scudder*. Loc. cit., p. 256.  
 1881. Larva. *Packard*, (quotes Harris.) Ins. Inj., Forest Trees, p. 100.  
 1885. Larva. *Hy. Edwards*. Kingsley's Stand. Nat. Hist., vol. 2, p. 475.  
 1886. Chrysalis, (fig.) *French*. Butt. East. U. States, p. 376.  
 1886. Life history. *French*. Loc. cit., p. 375.

FOOD PLANTS. *Robinia*, *Acacia*, *Wistaria*.

**Eudamus proteus.** L.

1797. Larva, chrysalis, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 18.  
 1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer., pl. 69.  
 1856. Larva. *Chenue—Lucas*, (quote Abb.—Sm.) Encyc. Nat. Hist. Papillons, vol. 1, p. 223.  
 1879. Larva, chrysalis. *A. W. Chapman*. Canad. Entom., vol. 11, p. 193.  
 1880. Larva, chrysalis. *Coquillett*, (quotes Chapman.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 184.  
 1881. Larva, chrysalis. *Gundlach*. Entom. Cubana, p. 169.  
 1886. Larva, chrysalis. *French*, (quotes Chapman.) Butt. East. U. States, p. 378.

FOOD PLANTS. *Phacelus*, *Clitoria*.

**Megathymus yuccæ.** Bois.—Lec.

1833. Larva, chrysalis, (col'd figs.) *Boisdural—Leconte*. Hist. Lep. N. Amer., pl. 70, (as *Eudamus Yuccæ*.)  
 1876. Larva, chrysalis, (figs.) *Riley*. Trans. Acad. Sc. St. Louis, pp. 323-344.  
 1876. Life history, (figs.) *Riley*. 8th Missouri Rept., pp. 168-183.  
 1877. Life history, (figs.) *Riley*. 9th Missouri Rept., p. 129.  
 1886. Life history, (figs.) *French*, (quotes Riley.) Butt. East. U. States, p. 383.  
 FOOD PLANT. *Stems of Yucca*.

**Megathymus cofaqui.** Strecker.

1876. Larva. *Strecker*. Proc. Acad. Nat. Sc. Philad., p. 148.

## HETEROCERA.

## SPHINGIDÆ.

**Hemaris tenuis.** Grote.

1877. Larva. *Grote*. Psyche, vol. 2, p. 66.  
 1880. Larva. *Coquillett*, (quotes Grote.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 160.

1883. Larva. *Ph. Fischer*. Canad. Entom., vol. 15, p. 238.  
 1884. Egg, larva. *Ph. Fischer*. Canad. Entom., vol. 16, p. 143.  
 1886. Larva, pupa. *W. J. Holland*. Canad. Entom., vol. 18, p. 101.  
 FOOD PLANT. *Symphoricarpus racemosus*.

**Hemaris marginalis.** Grote.

- Life history. *H. S. Jewett*. Bull. Brooklyn Entom. Soc., vol. 4, p. 17.  
 FOOD PLANT. *Lonicera sempervirens*.

**Hemaris diffinis.** Bois.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 85, pl. 43  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art., vol. 36, p. 308.  
 1859. Larva. *Clemens*. Journal Acad. N. Sc. Philad., (July.)  
 1862. Larva, (brief.) *Morris*, (quotes *Clemens*.) Synop. Lep. N. Amer., p. 149.  
 1870. Larva. *T. L. Mead*. Canad. Entom., vol. 2, p. 157.  
 1870. Larva. *Lintner*. 24th Rept. N. Y. State Cab. N. Hist., p. 110.  
 1874. Larva. *Boisduval*. Spec. Gener. Sphingidæ, p. 367.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 160.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 99.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 50.  
 1886. Larva. *Fernald*. Sphingidæ N. Engl'd, p. 15.  
 FOOD PLANTS. *Apocynum*, *Symphoricarpus*.

**Hemaris thysbe.** Fab., (includ. vars.)

1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 646.  
 1874. Larva. *Boisduval*. Spec. Gener. Sphingidæ, p. 370.  
 1879. Larva, pupa. *G. D. Hulst*. Bull. Brooklyn Entom. Soc., vol. 2, p. 38  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 99.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 51.  
 1883. Larva, pupa. *Edwards-Elliot*. Papilio, vol. 3, p. 125, (as *H. uniformis*.)  
 1885. Larva. *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 465.  
 1886. Larva. *Fernald*. Sphingidæ N. Engl'd, p. 17.  
 1888. Larva. *J. B. Smith*, (quotes *Lintner-Hulst*.) Monog. Sphing., p. 100  
 FOOD PLANTS. *Fiburnum*, *Crataegus*, *Prunus*, etc.

**Hemaris buffaloensis.** G. and R.

1870. Life history. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 112.  
 1888. Larva. *J. B. Smith*, (quotes *Lintner*.) Monog. Sphing., p. 105.  
 FOOD PLANT. *Fiburnum*.

**Hemaris etolus.** Bois.

1874. Larva. *Boisduval*. Spec. Gener. Sphingidæ, p. 370.  
 FOOD PLANT. *Fiburnum*.

**Hemaris pyramus.** Bois.

1874. Larva. *Boisduval*, (quotes *Leconte*.) Spec. Gener. Sphingidæ, p. 372.  
 FOOD PLANT. *Fiburnum*.

**Ælopos tantalus.** L.

1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 163.

**Cautethia grotei.** Hy. Edwards.

1881. Larva. *Gundlach*. Entom. Cubana.  
 1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 164.  
 FOOD PLANT. *Rubiaceæ*.

**Pogocolon gauræ.** Abb.-Sm.

1797. Larva, pupa, (fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 61, pl. 31.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc., Philad.  
 1862. Larva, pupa. *Morris*, (quotes *Abb.-Sm.*) Synop. Lep. N. Amer., p. 154.  
 1874. Larva. *Boisduval*, (quotes *Abb.-Sm.*) Spec. Gener. Sphingidæ, p. 315.  
 FOOD PLANT. *Gaura biennis*.

**Amphion nessus.** Cramer.

1874. Larva, (col'd fig.) *Boisduval*. Spec. Gener. Sphingidæ, p. 817, pl. 1.  
 1877. Larva. *W. F. Andrews*. Canad. Entom., vol. 9, p. 19.

1882. Larva. *E. B. Reed*, (quotes Andrews.) 12th Rept. Entom. Soc. Ontario.

1882. Larva, brief. *Julia E. Saunders*. Papilio, vol. 2, p. 147.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 21.

FOOD PLANTS. *Rubiacea*, *Vitis*.

***Thyreus abbotii*. Swainson.**

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 307.

1856. Larva, (fig.) *Chenu—Demarets*. Encyc. Hist. Nat. Papillons, vol. 1, p. 257.

1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.

1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 156.

1869. Larva. *Harris*. Entom. Corres., p. 284.

1870. Larva, pupa. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 114.

1874. Larva, pupa. *Boisduval*. Spec. Gener. Sphingidae, p. 331, (from Abbot's drawing.)

1876. Larva. *C. P. Whitney*. Canad. Entom., vol. 8, p. 75.

1876. Larva, (brief.) *A. R. Grote*. Canad. Entom., vol. 8, p. 100.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 164.

1878. Larva, (fig.) *G. H. Perkins*. 5th Rept. Vermont Agr. Soc., p. 281.

1878. Larva, (fig.) *Saunders*. Canad. Entom., vol. 10, p. 130.

1879. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 78.

1880. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 42.

1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 100.

1881. Larva, (fig.) *Saunders*. Canad. Entom., vol. 13, p. 2.

1882. Larva, (fig.) *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 53.

1882. Larva, (brief.) *Julia E. Saunders*. Papilio, vol. 2, p. 147.

1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 253.

1886. Larva, (fig.) *Fernald*. Sphingidae N. Engl'd, p. 23.

FOOD PLANTS. *Vitis*, *Ampelopsis*.

***Enyo lugubris*. L.**

1797. Larva, pupa, (fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 59, pl. 30.

1837. Larva, pupa. *Westwood*, (quotes Abb.—Sm.) Drury's Illus. Exot. Entom., vol. 1, p. 56.

1839. Larva. *Harris*, (quotes Abb.—Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 307.

1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.

1862. Larva. *Morris*, (quotes Abb.—Sm.) Synop. Lep. N. Amer., p. 162.

1874. Larva. *Boisduval*. Spec. Gener. Sphingidae, p. 297.

FOOD PLANT. *Ampelopsis hederacea*.

***Deidamia inscripta*. Harris.**

1862. Pupa. *Clemens*. Morris's Synop. Lep. N. Amer., p. 159.

1877. Larva, pupa. *Strecker*, (fide Akhurst.) Rhopal. et Heteroc., p. 112.

1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 70.

FOOD PLANT. *Ampelopsis*.

***Deilephila chamaeneril*. Harris.**

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 305.

1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.

1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 165.

1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 661.

1870. Larva, pupa, (brief.) *G. J. Bowles*. Canad. Entom., vol. 3, p. 145.

1874. Larva. *Boisduval*, (as *D. gallii*.) Spec. Gener. Sphingidae, p. 170.

1876. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 37.

1877. Larva, (fig.) *Saunders*. Canad. Entom., vol. 9, p. 64.

1880. Larva. *Coquillett*, (quotes Saunders.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.

1882. Larva. *E. B. Reed*, (quotes Saunders.) 12th Rept. Entom. Soc. Ontario, p. 54.

1883. Larva, cocoon, pupa. *Saunders*. Ins. Inj. Fruits, p. 257.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 55.  
 1888. Larva, (brief.) *J. B. Smith*, (quotes Harris, Clemens, Morris) Monog. Sphing., p. 133.

FOOD PLANT. *Epilobium angustifolium*.

***Deilephila lineata*. Fabr.**

1797. Larva, pupa, (fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 77, pl. 39.  
 1828. Larva, pupa. *Stephens*. Illus. Brit. Entom., Haust., vol. 1, p. 127.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 304.  
 1856. Larva, pupa. *Chenu*. Encyc. Hist. Nat. Papillons, p. 262.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1860. Larva. *Duncan*. Natural. Library, vol. 30, p. 152.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 161.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 662.  
 1871. Larva, (fig.) *Riley*. 3d Missouri Rept., p. 141.  
 1874. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 28.  
 1874. Larva. *Boisduval*, (quotes Abbot as D. daucus.) Spec. Gener. Sphingidae, p. 174.  
 1874. Larva, (fig.) *J. G. Wood*, (as D. daucus.) Ins. Abroad, p. 637.  
 1875. Larva, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc.  
 1876. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 37.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 164.  
 1877. Larva, (fig.) *Saunders*. Canad. Entom., vol. 9, p. 61.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 100.  
 1880. Larva, (fig.) *Coquillett*. Trans. Dept. Agr. Ill., Append., vol. 18, p. 159.  
 1882. Larva, (fig.) *E. B. Reed*, (quotes Riley.) 12th Rept. Entom. Soc. Ontario, p. 55.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 255.  
 1886. Larva, (fig.) *Fernald*. Sphingidae N. Engl'd, p. 57.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 196.  
 FOOD PLANTS. *Portulaca*, *Pyrus*, *Fuchsia*, etc.,

***Philampelus vitis*. Drury.**

1705. Larva, pupa, (col'd figs.) *Merian*. Metam. Ins. Surinam, p. 47, pl. 47.  
 1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 79, pl. 40.  
 1837. Larva, pupa. *Westwood*, (quotes Abb.-Sm.) Drury's Illus. Exot. Entom., vol. 1, p. 55.  
 1839. Larva. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 299.  
 1858. Larva, pupa, (col'd figs.) *Duncan*. Natural. Library, vol. 22, p. 105, pl. 7.  
 1859. Larva, pupa. *Clemens*, (quotes Abb.-Sm.) Jour. Acad. N. Sc. Philad., July.  
 1859. Larva, brief, (fig.) *P. H. Gosse*. Letters from Alabama, p. 246.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 179.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 189.  
 1886. Larva. *Fernald*, (quotes Clemens.) Sphingidae N. Engl'd, p. 59.  
 1887. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 165.  
 FOOD PLANT. *Jussiaea decurrens*.

***Philampelus pandorus*. Hübner.**

1705. Larva, pupa, (col'd figs.) *Merian*. Metam. Ins. Surinam, p. 47, pl. 47.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 300, (as P. satellitia.)  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 228.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 220.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 398.  
 1859. Larva. *Clemens*. Jour. Acad. Sc. Philad., July.  
 1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 177.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 659.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 193.

1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 26.  
 1874. Larva. *Boisdual*. Spec. Gener. Sphingidae, p. 200.  
 1876. Life history, (figs.) *Riley*. 2d Missouri Rept.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 165.  
 1877. Larva. *Scudder*. Psyche, vol. 2, p. 68.  
 1880. Larva, (fig.) *Coquillett*, (quotes Clemens.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 175.  
 1880. Larval stages, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., Append., vol. 18, p. 101.  
 1881. Larva. *Saunders*. Canad. Entom., vol. 13, p. 41.  
 1881. Larva. *W. F. Goldsmith*, (quotes Riley.) Kentucky Bureau Agr., p. 254.  
 1882. Larva, (fig.) *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 19.  
 1882. Larva, pupa, (figs.) *E. B. Reed* Loc. cit., p. 60.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 249.  
 1886. Larva, (fig.) *Fernald*. Sph. idæ N. Eng'l'd, p. 60.  
 1886. Larva, (brief.) *Julia E. Saunders*. Papilio, vol. 2, p. 147.  
 1888. Larva, pupa, (fig.) *Grote*. 18th Rept. Entom. Soc. Ontario, p. 73.  
 FOOD PLANTS. *Ampelopsis*, *Vitis*.

**Philampelus achemon.** Drury.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 81, pl. 41.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 300.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 228.  
 1859. Larval stages. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larval stages. *Morris*, (quotes Clemens). Synop. Lep. N. Amer., p. 178.  
 1862. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 325.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 660.  
 1869. Larva, (fig.) *Harris*. Entom. Corres., pl. 111.  
 1870. Egg, larval stages. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 116.  
 1874. Larva. *Boisdual*, (quotes Lorquin in lit.) Spec. Gener. Sphingidae, p. 200.  
 1874. Life history. *Riley*. 2d Missouri Rept., p. 74-76.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 165.  
 1878. Larva, pupa, (fig.) *Saunders*. Canad. Entom., vol. 10, p. 103.  
 1878. Larva, (fig.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 279.  
 1879. Larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 74.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 101.  
 1880. Larva, (fig.) *Coquillett*, (quotes Clemens.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 182.  
 1882. Larva, (brief.) *Julia E. Saunders*. Papilio, vol. 2, p. 147.  
 1883. Larval stages, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 251.  
 1886. Larva, pupa, (figs.) *Fernald*. Sphingidae N. Eng'l'd, p. 61.  
 FOOD PLANT. *Vitis*.

**Arges labruscæ.** L.

1705. Larva, pupa, (col'd figs.) *Merian*. Metam. Ins. Surinam, p. 34, pl. 34.  
 1719. Larva, (col'd fig.) *Madame Merian*. Ins. of Surinam, pl. 34.  
 1874. Larva. *Boisdual*, (quotes Mad. Merian.) Spec. Gener. Sphingidae, p. 193.  
 1886. Larva, (brief.) *Gundlach*. Entom. Cubana, p. 187.  
 FOOD PLANT. *Cissus*.

**Pseudosphinx tetrio.** L.

1832. Larva, (fig.) *Pocoy*. Lep. Cubana.  
 1874. Larva. *Boisdual*, (quotes Poey.) Spec. Gener. Sphingidae, p. 61.  
 1878. Larva, pupa, (figs.) *H. Dewitz*. Wiegmann Archiv. Naturgesch., p. 9, pl. 1.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 204.  
 1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 165.  
 1887. Pupa. *Hy. Edwards*. Canad. Entom., vol. 20, p. 14.  
 FOOD PLANTS. *Plumiera rubra*, *Jasminum*.

**Pachylla ficus.** L.

1719. Larva, (fig.) *Madame Merian.* Ins. of Surinam, pl. 33.  
 1874. Larva. *Boisduval*, (quotes *Mad. Merian.*) Spec. Gener. Sphingidæ, p. 137.  
 1884. Larva, (brief.) *W. Schaus, jr.* Papilio, vol. 4, p. 21.  
 1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 201.  
 1888. Larva, (brief.) *J. B. Smith*, (quotes *Fab., Merian, Boisduval*) Monogr. Sphing., p. 139.

FOOD PLANT. *Ficus.*

**Chærocampa tersa.** L.

1797. Larva, pupa, (col'd fig.) *Abbot-Smith.* Lep. Ins. Georgia, p. 75, pl. 38.  
 1837. Larva, pupa. *Westwood*, (quotes *Abb.-Sm.*) Drury's Ill. Exot. Entom., vol. 1, p. 56.  
 1839. Larva, pupa. *Harris*, (quotes *Abb.-Sm.*) Silliman's Jour. Sc. Art, vol. 23, p. 303.  
 1858. Larva, (col'd fig.) *Duncan.* Natural Library, vol. 22, p. 100, pl. 6.  
 1859. Larva. *Clemens.* Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*, (quotes *Clemens.*) Synop. Lep. N. Amer., p. 172.  
 1874. Larva, pupa. *Boisduval*, (quotes *Abbot.*) Spec. Gener. Sphingidæ, p. 263.  
 1880. Larva. *Coquillett*, (quotes *Abb.-Sm.*) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.  
 1882. Larva. *E. B. Reed.* 12th Rept. Entom. Soc. Ontario, p. 56.  
 1886. Larva. *Fernald.* Sphingidæ N. Eng'l'd, p. 63.  
 1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 192.  
 1887. Pupa. *Hy. Edwards.* Entom. Amer., vol. 3, p. 164.

FOOD PLANT. *Rubiaceæ.*

**Everyx cherilus.** Bdv.

1797. Larva, pupa. *Abbot-Smith.* Lep. Ins. Georgia, p. 53, pl. 27.  
 1839. Larva. *Harris*, (quotes *Abb.-Sm.*) Silliman's Jour. Sc. Art, vol. 36, p. 302.  
 1859. Larva, pupa. *Clemens*, (quotes *Abb.-Sm.*) Jour. Acad. N. Sc. Philad.  
 1862. Larva, pupa. *Morris*, (quotes *Clemens.*) Synop. Lep. N. Amer., p. 168.  
 1869. Pupa. *Harris.* Entom. Corres., p. 283.  
 1874. Larva, pupa. *Boisduval.* Spec. Gener. Sphingidæ, p. 211.  
 1882. Larva. *E. B. Reed*, (quotes *Abb.-Sm.*) 12th Rept. Entom. Soc. Ontario, p. 57.  
 1883. Larva, pupa. *Edwards-Elliot.* Papilio, vol. 3, p. 126.  
 1886. Larva, pupa. *Fernald*, (quotes *Edw.-Elliot.*) Sphingidæ N. Eng'l'd, p. 65.

FOOD PLANTS. *Azalea, Viburnum.*

**Everyx myron.** Cramer.

1797. Larva, (fig.) *Abbot-Smith.* Lep. Ins. Georgia, p. 55, pl. 28.  
 1839. Larva. *Harris.* Silliman's Jour. Sc. Art, vol. 36, p. 302.  
 1841. Larva, pupa. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 229.  
 1852. Larva. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 249.  
 1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 397.  
 1859. Larva, pupa. *Clemens.* Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes *Clemens.*) Synop. Lep. N. Amer., p. 169.  
 1862. Larva, pupa, (fig.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 327.  
 1861. Larval stages, pupa. *Lintner.* Proc. Entom. Soc. Philad., vol. 3, p. 663.  
 1871. Larva, (fig.) *Saunders.* Rept. Entom. Soc. Ontario, p. 357.  
 1871. Larva, pupa, (fig.) *Saunders.* Canad. Entom., vol. 3, p. 66.  
 1871. Life history, (figs.) *Riley.* 2d Missouri Rept., p. 71-73.  
 1874. Larva, pupa. *Boisduval.* Spec. Gener. Sphingidæ, p. 210.  
 1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 163.  
 1878. Larva, (fig.) *G. H. Perkins.* 5th Rept. Vermont Board Agr., p. 277.  
 1879. Larva, (fig.) *Mrs. Ballard.* Insect Lives, p. 67.  
 1880. Larva, (fig.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 103.  
 1882. Larva, pupa, (figs.) *E. B. Reed.* 12th Rept. Entom. Soc. Ontario, p. 58.

1883. Egg, larval stages, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 245.

1885. Egg, larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 465.

1886. Egg, larva, pupa, (figs.) *Fernald*. *Sphingidae N. Engl'd*, p. 66.

FOOD PLANTS. *Vitis*, *Ampelopsis*, *Viburnum*.

***Ampelophaga versicolor*. Harris.**

1876. Larva, (brief.) *G. W. Peck*. *Canad. Entom.*, vol. 8, p. 239.

1878. Life history. *G. D. Hulst*. *Canad. Entom.*, vol. 10, p. 64.

1880. Larva. *Coquillett*, (quotes Hulst.) *Trans. Dept. Agr. Ill.*, vol. 18, Appendix, p. 158.

1881. Larva, (brief.) *Ph. Fischer*. *Bull. Buffalo Soc. N. Se.*, vol. 4, p. 62.

1885. Larva. *Ph. Fischer*. *Canad. Entom.*, vol. 17, p. 78.

1886. Egg, larval stages, pupa. *Fernald*, (quotes Hulst.) *Sphingidae N. Engl'd*, p. 68.

FOOD PLANT. *Cephalanthus occidentalis*.

***Smerinthus ophthalmicus*. Bois.**

1869. Larva. *Boisduval*. *Lep. Califor.*, p. 68.

1874. Larva, (col'd fig.) pupa. *Boisduval*, (quotes Lorquin in lit.) *Spec. Gener. Sphingidae*, p. 34, pl. 1.

1875. Egg, larval stages. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, April.

FOOD PLANT. *Salix*.

***Smerinthus geminatus*. Say.**

1840. Larva, pupa. *P. H. Gosse*. *Canad. Naturalist*, pp. 280, 295.

1870. Egg, larval stages. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 119.

1874. Larva. *Boisduval*. *Spec. Gener. Sphingidae*, p. 39.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 62.

1886. Egg, larva. *Fernald*. *Sphingidae N. Engl'd*, p. 78.

FOOD PLANTS. *Prunus*, *Salix*, *Betula*, etc.

***Smerinthus excrucatus*. Abb.-Sm.**

1797. Larva, pupa, (figs.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 49, pl. 25.

1839. Larva. *Harris*. *Silliman's Jour. Sc. Art*, vol. 36, p. 290.

1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 230.

1856. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 341.

1859. Egg, larval stages, pupa. *Clemens*. *Jour. Acad. N. Se. Philad.*, July.

1862. Egg, larva, pupa. *Morris*, (quotes Clemens.) *Synop. Lep. N. Amer.*, p. 209.

1864. Larva, pupa. *Lintner*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 665.

1868. Larva. *E. B. Reed*. *Canad. Entom.*, vol. 1, p. 40.

1874. Larva, pupa. *Boisduval*, (quotes J. Leconte in lit.) *Spec. Gener. Sphingidae*, p. 38, (after Abbot's drawing.)

1876. Larva. *Strecker*. *Rhopal. et Heteroc.*, p. 55.

1877. Larva. *Packard*. *Half-hours with Insects*, p. 180.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 62.

1883. Larva, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 85.

1884. Larva, (fig.) *Saunders*. *Canad. Entom.*, vol. 16, p. 11.

1885. Larva, (fig.) *Saunders*. 15th Rept. Entom. Soc. Ontario, p. 26.

1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 468.

1880. Larva, pupa, (figs.) *Fernald*. *Sphingidae N. Engl'd*, p. 74.

FOOD PLANTS. *Pyrus*, *Prunus*, *Rosa*.

***Smerinthus myops*. Abb.-Sm.**

1797. Larva, pupa, (figs.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 51, pl. 26.

1839. Larva. *Harris*, (quotes Abb.-Sm.) *Silliman's Jour. Sc. Art*, vol. 36, p. 291.

1859. Larva, pupa. *Clemens*. *Jour. Acad. N. Se. Philad.*, (after Abbot's figure.)

1862. Larva, pupa. *Morris*, (quotes Clemens.) *Synop. Lep. N. Amer.*, p. 208.

1874. Larva, pupa. *Boisduval*, (quotes J. Leconte in lit.) *Spec. Gener. Sphingidae*, p. 42, (after Abbot's figure.)

1876. Larva, (brief.) *G. W. Peck*. *Canad. Entom.*, vol. 8, p. 239.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 61.  
 1883. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 208.  
 1884. Larva. *Saunders*. Canad. Entom., vol. 16, p. 11.  
 1885. Larva. *Saunders*. 15th Rept. Entom. Soc. Ontario, p. 27.  
 1886. Larva. *Fernald*. Sphingidae, N. Engl'd, p. 76.  
 1886. Larva. *R. Bunker*. Canad. Entom., vol. 18, p. 207.  
 FOOD PLANT. *Prunus*.
- Smerinthus astylus*. Drury.**  
 1874. Larva. *Boisduval*, (quotes J. Leconte in lit.) Spec. Gener. Sphingidae, p. 41.  
 1876. Larva, (brief.) *G. W. Peck*. Canad. Entom., vol. 8, p. 239.  
 1886. Larva. *Fernald*. Sphingidae, N. Engl'd, p. 77.  
 1888. Larva, (brief.) *J. B. Smith*, (quotes Peck.) Monog. Sphing., p. 229.  
 FOOD PLANT. *Vaccinium corymbosum*.
- Triptogon modesta*. Harris.**  
 1877. Life history. *R. Bunker*. Canad. Entom., vol. 9, p. 210.  
 1877. Larva. *W. V. Andrews*. Psyche, vol. 2, p. 72.  
 1880. Larva. *Coquillett*, (quotes Andrews.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.  
 1881. Larva, pupa. *D. S. Kellicott*. Bull. Buffalo Soc. N. Sc., vol. 4, p. 29.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 63.  
 1886. Life history. *Fernald*, (quotes Bunker.) Sphingidae, N. Engl'd, p. 72.  
 FOOD PLANTS. *Populus, Salix*.
- Cressonia juglandis*. Abb.-Sm.**  
 1797. Larva, pupa, (figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 57, pl. 29.  
 1839. Larva, pupa. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 292.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 462.  
 1859. Larva, pupa. *Clemens*, (quotes Abb.-Sm.) Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 213.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 668.  
 1869. Larva. *Harris*. Entom. Corres., p. 281.  
 1874. Larva, pupa. *Boisduval*, (quotes Abbot.) Spec. Gener. Sphingidae, p. 27.  
 1876. Larva, pupa. *Strecker*, (quotes Abbot.) Rhopal. et Heteroc., p. 54.  
 1881. Larva. *Packard*, (quotes Harris.) Ins. Inj. Forest Trees, p. 84.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 63.  
 1883. Young larva. *Edwards-Elliott*. Papilio, vol. 3, p. 127.  
 1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 81.  
 FOOD PLANTS. *Juglans, Carya*.
- Ceratonia amyntor*. Hübn.**  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 293, (as *C. quadricornis*.)  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 227.  
 1852. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 247.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 205.  
 1862. Larva, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 324.  
 1862. Larva, (brief.) *Packard*. 2d Rept. Nat. Hist. and Geolog. Maine, p. 167.  
 1862. Egg, larval stages, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 1, p. 286.  
 1864. Pupa. *Lintner*. Loc. cit., vol. 3, p. 664.  
 1864. Larva. *Jacger*. Life N. Amer. Ins., p. 192.  
 1869. Egg. *Minot*. Canad. Entom., vol. 2, p. 28.  
 1869. Larva, pupa. *Harris*. Entom. Corres., p. 282.  
 1874. Larva, pupa, (col'd fig.) *Boisduval*. Spec. Gener. Sphingidae, p. 54, pl. 1.  
 1876. Larva, (brief.) *R. Bunker*. Canad. Entom., vol. 8, p. 120.

1876. Larva, (brief.) *W. F. Andrews.* Canad. Entom., vol. 8, p. 40.  
 1877. Larva. *French*, (quotes Harris.) Trans. Dept. Agr. Ill., vol. 15, p. 167.  
 1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 102.  
 1881. Larva, (brief.) *Packard.* Ins. Inj. Forest Trees, p. 67.  
 1882. Larva. *E. B. Reed.* 12th Rept. Entom. Soc. Ontario, p. 61.  
 1886. Egg, larva. *Fernald.* Sphingidae N. Engl'd, p. 25.  
 FOOD PLANT. *Ulmus americanus.*

**Daremma undulosa.** Walk.

1859. Larva, (brief.) *Clemens*, (as *C. repentinus*.) Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, (brief.) *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 206.  
 1870. Egg, larval stages, pupa. *Lintner.* 24th Rept. N. York State Cab. N. Hist., pp. 123-131.  
 1874. Larva, pupa. *Boisduval*, (as *Sph. brontes*.) Spec. Gener. Sphingidae, p. 116.  
 1877. Larva. *W. F. Andrews.* Psyche, vol. 2, p. 73.  
 1880. Larva. *J. Marten*, (as *D. brontes*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 102.  
 1880. Larva. *Coquillett*, (quotes Andrews.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 159.  
 1882. Larva. *E. B. Reed.* 12th Rept. Entom. Soc. Ontario, p. 61.  
 1886. Life history. *Fernald.* Sphingidae N. Engl'd, p. 28.  
 FOOD PLANT. *Fraxinus.*

**Daremma catalpæ.** Bois.

1874. Larva, pupa, (col'd figs.) *Boisduval*, (after Abbot.) Spec. Gener. Sphingidae, p. 103, pl. 2.  
 1880. Larva. *J. Marten*, (quotes Boisduval.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 104.  
 1881. Egg, larva. *A. Koehle.* Bull. Brooklyn Entom. Soc., vol. 4, p. 20.  
 1882. Life history, (figs.) *Riley.* Rept. U. S. Dept. Agr., pp. 192-193, pl. 13  
 FOOD PLANT. *Catalpa cordifolia.*

**Diludia jasminearum.** Bois.-Lee.

1859. Pupa, (brief.) *Clemens.* Jour. Acad. N. Sc. Philad., July.  
 1862. Pupa, (brief.) *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 199.  
 1874. Larva, pupa, (col'd fig.) *Boisduval.* Spec. Gener. Sphingidae, p. 115, pl. 1.  
 1880. Larva. *J. Marten*, (quotes Boisduval.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 103.  
 FOOD PLANT. *Fraxinus.*

**Amphonyx antæus.** Drury.

1719. Larva, pupa, (col'd figs.) *Madame Merian.* Ins. of Surinam, pl. 2.  
 1874. Larva, pupa. *Boisduval*, (quotes Mad. Merian.) Spec. Gener. Sphingidae, p. 65.  
 1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 206.  
 1887. Pupa. *Hy. Edwards.* Entom. Amer., vol. 3, p. 164.  
 1888. Larva, (brief.) *J. B. Smith.* Monog. Sphing., p. 154  
 FOOD PLANT. Species of *Jatropha.*

**Phlegethontius rustica.** Fab.

1797. Larva, pupa, (col'd figs.) *Abbot-Smith.* Lep. Ins. Georgia, p. 67, pl. 34.  
 1858. Larva, (col'd fig.) *Duncan.* Natural. Library, vol. 22, p. 102, pl. 6.  
 1859. Larva, pupa. *Clemens.* Jour. Acad. N. Sc. Philad. (quotes Abbot), July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 187.  
 1874. Larva, pupa. *Boisduval.* Spec. Gener. Sphingidae, p. 83.  
 1878. Larva, pupa. *H. Dewitz.* Wiegmann Archiv. Naturgesch., p. 10.  
 1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 209.  
 1887. Pupa. *Hy. Edwards.* Entom. Amer. vol. 3, p. 164.  
 FOOD PLANTS. *Chionanthus, Jasminum.*

**Phlegethontius carolina. L.**

1705. Larva, pupa, (col'd figs.) *Merian*. Matam. Ins. Surinam, p. 57, pl. 57.  
 1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 65, pl. 23.  
 1828. Larva, (col'd fig.) *Curtis*. British Entom., vol. 5, pl. 195.  
 1828. Larva, pupa, (brief.) *Stephens*, (quotes Abb.-Sm.) Illus. Brit. Entom., vol. 1, p. 118.  
 1837. Larva, pupa. *Westwood*, (quotes Abb.-Sm.) in Drury. Illus. Exot. Entom., vol. 1, p. 47.  
 1839. Larva, pupa. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 294.  
 1852. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 246.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. Sc. Philad., July.  
 1859. Pupa. *P. H. Gosse*. Letters from Alabama, p. 66.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 189.  
 1862. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 322.  
 1869. Larva. *Harris*. Entom. Corres., p. 126, (quotes Doubleday lit.)  
 1869. Larva. *Harris*. Loc. cit., p. 282.  
 1873. Larva, pupa, (figs.) *T. Glover*. Rept. U. S. Dept. Agr., p. 157.  
 1874. Larva. *Boisduval*, (after Abbot.) Spec. Gener. Sphingidae, p. 79.  
 1874. Larva. *Boisduval*, (var. lycopersici.) Loc. cit., p. 72.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 168.  
 1878. Larva, pupa. *H. Dewitz*. Wiegmann Archiv. Naturgesch., p. 12.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 103.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 158.  
 1882. Larva. *J. Leidy*. Proc. Acad. N. Sc. Philad., p. 257.  
 1885. Larva, pupa, (fig.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, pp. 464-468.  
 1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 32.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 210.  
 FOOD PLANTS. Various species of *Solanum*, *Datura*, etc.

**Phlegethontius celeus. Hübn.**

1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 226.  
 1852. Larva, pupa, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 247.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1859. Larva. *Jaeger*. Life N. Amer. Ins., p. 189.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 190.  
 1862. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 320.  
 1863. Larva, pupa, (figs.) *Fitch*. 9th Rept. Ins. N. York, p. 778.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 648.  
 1867. Larva, pupa, (fig.) *S. Tenney*. Manual N. History, p. 392.  
 1869. Larva, pupa, (figs.) *Riley*. 1st Missouri Rept., p. 95.  
 1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 80.  
 1871. Larva, pupa, (figs.) *E. B. Reed*. Rept. Entom. Soc. Ontario, p. 419.  
 1873. Larva, pupa, (figs.) *A. J. Cook*. 12th Rept. State Board Agr. Michigan, p. 117.  
 1874. Larva. *Boisduval*, (after Abbot.) Spec. Gener. Sphingidae, p. 76.  
 1874. Larva. *Gentry*. Canad. Entom., vol. 6, p. 88.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 169.  
 1877. Larva, pupa, (fig.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 780.  
 1877. Larva, pupa, (figs.) *Packard*. Half-hours with Insects, p. 205.  
 1879. Larva, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 95.  
 1880. Larva, pupa, (figs.) *Bethune*. Rept. Entom. Soc. Ontario, p. 25.  
 1880. Larva, pupa, (figs.) *Bethune*. Canad. Entom., vol. 12, p. 101.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 104.  
 1882. Larva, pupa, (figs.) *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 65.  
 1885. Larva. *Lintner*. Rept. Massachusetts Board Agr., p. 180.  
 1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 34.  
 FOOD PLANTS. *Solanum*, *Nicotiana*, *Datura*, etc.

**Phlegethontius cingulata.** Fabr.

1797. Larva, pupa, (figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 63, pl. 32.  
 1837. Larva, pupa. *Westwood*, (quotes Abb.-Sm.) Drury's Illus. Exot. Entom., vol. 1, p. 50.  
 1839. Larva, pupa. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 294.  
 1859. Larva, pupa. *Clemens*, (quotes Abb.-Sm.) Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 189.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 650.  
 1869. Larva. *Harris*, (as Sph. convolvuli.) Entom. Corres., p. 282.  
 1874. Larva, pupa. *Boisduval*. Spec. Gener. Sphingidae, p. 96.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 104.  
 1880. Larva. *Coguillett*, (quotes Abb.-Sm.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 158.  
 1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 36.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 212.

FOOD PLANT. *Convolvulus batatas*.**Sphinx drupiferarum.** Abb.-Sm.

1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 71, pl. 36.  
 1839. Larva, pupa. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 294.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 362.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 197.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 658.  
 1871. Egg, larval stages, pupa, (figs.) *E. B. Reed*. Canad. Entom., vol. 3, p. 5.  
 1871. Larva, pupa, (figs.) *E. B. Reed*. Rept. Entom. Soc. Ontario, p. 362.  
 1874. Larva, pupa. *Boisduval*, (quotes Abb.-Sm.) Spec. Gener. Sphingidae, p. 98.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 104.  
 1882. Larva, pupa, (figs.) *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 67.  
 1883. Larva, (brief.) *Ph. Fischer*. Canad. Entom., vol. 15, p. 238.  
 1883. Egg, larval stages, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 163.  
 1886. Egg, larva, pupa, (figs.) *Fernald*. Sphingidae N. Engl'd, p. 40.  
 FOOD PLANTS. *Prunus*, *Celtis*.

**Sphinx kalmiae.** Abb.-Sm.

1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 73, pl. 37.  
 1839. Larva. *Harris*, (quotes Abb.-Sm.) Silliman's Jour. Sc. Art, vol. 36, p. 295.  
 1840. Egg, young larva. *P. H. Gosse*. Canad. Naturalist, p. 260.  
 1859. Larva, pupa. *Clemens*, (quotes Abb.-Sm.) Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 196.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 657.  
 1874. Larva, pupa. *Boisduval*. Spec. Gener. Sphingidae, p. 92.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 104.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 68.  
 1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 41.

FOOD PLANTS. *Kalmia*, *Chionanthus*, *Syringa*, *Fraxinus*.**Sphinx chersis.** Hübn.

1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 655.  
 1869. Larva. *Harris*. Entom. Corres., p. 282.  
 1877. Larva. *Scudder*. Psyche, vol. 2, p. 76.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 65.  
 1883. Larva. *Edwards-Elliot*. Papilio, vol. 3, p. 127.

1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 42.

FOOD PLANT. *Syringa*.

**Sphinx gordius**. Cramer.

1839. Larva. *Harria*. Silliman's Jour. Sc. Art, vol. 36, p. 295.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 341.

1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.

1862. Larva, pupa. *Morris*. Synop. Lep. N. Amer., p. 198.

1877. Larva. *Packard*. Half-hours with Insects, p. 180.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.

1883. Larva, pupa, (brief.) *Saunders*. Ins. Inj. Fruits, p. 86.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 45.

FOOD PLANT. *Pyrus*.

**Sphinx lugens**. Walk.

1875. Larva, pupa. *F. H. Snow*. Trans. Kansas Acad. Sc., vol. 4, p. 28.

**Sphinx eremitus**. Hübner.

1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 80.

1879. Larva. *T. W. Tyler*. Canad. Entom., vol. 11, p. 59.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 69.

1886. Larva, pupa. *Fernald*. Sphingidae N. Engl'd, p. 47.

FOOD PLANTS. *Mentha*, *Monarda*, *Salvia*.

**Sphinx elsa**. Strecker.

1888. Larva. *Hy. Edwards*. Entom. Amer., vol. 4, p. 61.

**Sphinx luscitiosa**. Clem.

1888. Larval stages, pupa. *Caroline G. Soule*. Psyche, vol. 5, p. 85.

**Dolba hylæus**. Drury.

1797. Larva, pupa, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 69, pl. 35.

1837. Larva, pupa. *Westwood*, (quotes Abb.-Sm.) *Drury*. Illus. Exot. Entom., vol. 2, p. 49.

1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 296.

1859. Larva, pupa. *Clemens*, (quotes Abb.-Sm.) Jour. Acad. N. Sc. Philad., July.

1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 204.

1874. Larva, pupa. *Boisdural*. Spec. Gener. Sphingidae, p. 99.

1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 70.

1884. Larva. *W. H. Harrington*. Canad. Entom., vol. 16, p. 55.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 49.

FOOD PLANT. *Prinos*.

**Dilophonota ello**. L.

1719. Larva, pupa, (col'd figs.) *Madame Merian*. Ins. Surinam.

1839. Larva. *Harris*, (quotes Mad. Merian.) Silliman's Jour. Sc. Art, vol. 36, p. 297.

1859. Larva, pupa. *Clemens*, (quotes Mad. Merian.) Jour. Acad. N. Sc. Philad.

1862. Larva, pupa. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 201.

1874. Larva. *Boisdural*, (after Merian.) Spec. Gener. Sphingidae, p. 120.

1886. Egg, larva. *W. J. Holland*. Canad. Entom., vol. 18, p. 103.

1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 223.

1887. Larval stages, pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 166.

FOOD PLANT. *Psidium*.

**Anceryx edwardsii**. Butler.

1887. Larval stages, pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 165.

**Hyloicus plebeius**. Fabr.

1874. Larva, (col'd fig.) pupa. *Boisdural*, (after Abbot's drawing.) Spec. Gener. Sphingidae, p. 100, pl. 1.

1877. Larva. *Scudder*. Psyche, vol. 2, p. 78.

1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 53.

FOOD PLANTS. *Bignonia*, *Passiflora*.

**Hyloicus cupressi.** Bois.

1874. Larva, pupa, (col'd figs.) *Boisdural*, (after Abbot's drawing.) Spec. Gener. Sphingidae, p. 102, pl. 2.

FOOD PLANT. *Cupressus thyoides*.

**Ellema coniferarum.** Abb.-Sm.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 83, pl. 42.  
 1839. Larva. *Harris*, (after Abbot.) Silliman's Jour. Sc. Art, vol. 36, p. 297.  
 1840. Larva, (brief.) *Westwood*. Intr. Mod. Class. Ins., vol. 2, p. 367.  
 1858. Larva, (brief.) *Fitch*. 4th Rept. Ins. N. York, p. 742.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad. (quotes Abb.-Sm.), July.  
 1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 199.  
 1874. Larva, pupa. *Boisdural*, (after Abbot.) Spec. Gener. Sphingidae, p. 105.  
 1880. Larva. *J. Marten*, (quotes Fitch, Abb.-Sm.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.  
 1881. Egg, larva. *A. Koebel*. Bull. Brooklyn Entom. Soc., vol. 4, p. 20.  
 1881. Larva, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 201.  
 1886. Egg, larva. *Fernald*. Sphingidae N. Engl'd, p. 85.  
 1887. Pupa. *Hy. Edwards*. Entom. Amer., vol. 3, p. 167.

FOOD PLANT. *Pinus palustris*.

**Ellema bombycoides.** Walk.

1859. Larva, (brief.) *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, (brief.) *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 216.  
 1864. Larva, pupa. *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 669.  
 1869. Larva, pupa, (figs.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 171.  
 1869. Larva. *Packard*. Guide to Study of Insects, p. 272.  
 1874. Larva, pupa. *Boisdural*. Spec. Gener. Sphingidae, p. 106.  
 1877. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 79.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.  
 1881. Larva, pupa. *Packard*, (quotes Lintner.) Ins. Inj. Forest Trees, p. 202.  
 1882. Larva. *E. B. Reed*. 12th Rept. Entom. Soc. Ontario, p. 70.  
 1886. Larva. *Fernald*. Sphingidae N. Engl'd, p. 84.

FOOD PLANT. *Pinus* of various species.

**Ellema pineum.** Lintn.

1869. Larva. *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 170.  
 1874. Larva. *Boisdural*, (quotes Lintner.) Spec. Gener. Sphingidae, p. 107.  
 1880. Larva. *J. Marten*, (quotes Lintner.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 105.  
 1881. Larva. *Packard*, (quotes Lintner.) Ins. Inj. Forest Trees, p. 202.

FOOD PLANT. *Pinus strobus*.

**ÆGERIADÆ.****Melittia ceto.** Westw.=*cucurbitæ*. Harr.

1828. Larva. *Harris*. N. Engl'd Farmer, vol. 7, p. 33.  
 1839. Larva, cocoon, pupa. *Harris*, (as *Aeg. cucurbitæ*.) Silliman's Jour. Sc. Art, vol. 36.  
 1842. Larva. *Harris*. N. Engl'd Farmer, vol. 20, p. 260.  
 1852. Pupa, cocoon, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 252.  
 1862. Larva, cocoon, pupa. *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 139.  
 1862. Larva, cocoon, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 331.  
 1869. Larva. *Harris*. Entom. Corres., p. 284.  
 1871. Larva, cocoon, (figs.) *E. B. Reed*. Rept. Entom. Soc. Ontario, p. 429.  
 1874. Larva. *Boisdural*, (after Abbot.) Spec. Gener. Sphingidae, p. 470.  
 1877. Larva, (fig.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 769.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 173.

1880. Larva, cocoon. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.  
 1883. Egg, (brief.) *Saunders*. Ins. Inj. Fruits, p. 361.  
 1883. Larva, pupa, (figs.) *Saunders*. Loc. cit., p. 361.  
 1885. Larva, cocoon, (figs.) *Lintner*, (quotes Harris.) 2d Rept. State Entom. N. York, p. 59.  
 1885. Larva, pupa. *Scudder*. Psyche, vol. 4, p. 303.

FOOD PLANTS. *Cucurbitacea* of various species.

***Alcathoe caudatum*. Harris.**

1839. Larva, (brief.) *Harris*. Silliman's Jour. Sc. Art, vol. 36.  
 1862. Larva, (brief.) *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 139.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 424.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 172.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 108.  
 FOOD PLANTS. *Ribes*, *Clematis*, (stems.)

***Trochilium apiforme*. L.**

1828. Larva, pupa. *Stephens*. Illus. Brit. Entom., Haust., vol. 1, p. 137.  
 1836. Larva. *J. Duncan*. Natural. Library, vol. 4, Entom., p. 173.  
 1840. Larva, pupa, (col'd figs.) *Ratzburg*. Die Forst-Insecten, vol. 2, p. 73, pl. 3, 4.  
 1848. Larva, (col'd fig.) *Humphreys*. Genera British Moths, p. 13, pl. 4.  
 1857. Larva. *Stainton*. Manual Brit. Butt. and Moths, p. 102.  
 1872. Larva, (brief.) *J. G. Wood*. Insects at Home, p. 427.  
 1872. Larva. *Figuier*. Insect World (Duncan's edit.), p. 193.  
 1874. Larva, cocoon, pupa, (figs.) *P. M. Duncan*. Transfor. of Ins., p. 95.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 77.  
 FOOD PLANTS. Trunks of *Willow* and *Poplar*.

***Fatua denudata*. Harris.**

1852. Pupa, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 252.  
 1862. Pupa, (brief.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 330.  
 FOOD PLANT. *Fraxinus*, (stems and trunk.)

***Bembecia marginata*. Harris.**

1874. Larva. *Riley*, (as *Aeg. rubi*.) 6th Missouri Rept., p. 113.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 175.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., p. 18, Append., p. 108.  
 1881. Larva. *Riley*. Suppl. Missouri Rept's, p. 72.  
 1883. Egg. *G. D. Hulst*. Bull. Brooklyn Entom. Soc., vol. 6, p. 8.  
 FOOD PLANT. Stems of *Rubus*.

***Sciapteron tricineta*. Harris.**

1881. Larva, (brief.) *D. S. Kellicott*. Bull. Buffalo Soc. N. Sc., p. 62.  
 1881. Larva, pupa. *D. S. Kellicott*. Canad. Entom., vol. 13, p. 3.  
 1881. Larva. *Packard*, (quotes Kellicott.) Ins. Inj. Forest Trees, p. 121.  
 FOOD PLANT. *Populus candicans*, (stems.)

***Sciapteron polistiformis*. Harris.**

1854. Larva, cocoon, pupa, (brief.) *Harris*. Rept. on Ins. Inj. Vegetat. Trans. Amer. Pomological Soc., p. 10.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 387.  
 1861. Larva, cocoon, (figs.) *T. Glover*. Rept. N. York State Board Agr., p. 72.  
 1869. Larval stages, pupa. *B. D. Walsh*. 1st Illinois Rept., p. 24.  
 1871. Larva. *Riley*. 3d Missouri Rept., p. 76.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 171.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 108.  
 1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 229.  
 FOOD PLANT. *Vitis*, (stem and roots.)

***Sciapteron anthracipennis*. Boisd.**

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 109.  
 FOOD PLANT. *Salix*, (stems.)

**Harmonia pini.** Kellicott.1881. Larva, pupa. *D. S. Kellicott.* Canad. Entom., vol. 13, p. 6.1881. Larva, pupa. *Packard,* (quotes Kellicott.) Ins. Inj. Forest Trees, p. 180.FOOD PLANT. *Pinus*, (trunk and stem.)**Podosesia syringæ.** Harris.1839. Larva. *Harris.* Silliman's Jour. Sc. Art, vol. 36.1870. Larva. *Packard.* Inj. Ins., new or little known, p. 18.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 174.1880. Larva, pupa. *Herbert Osborn.* Trans. Iowa Hortie. Soc., vol. 15, p. 107.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 101.1881. Larva. *Hy. Edwards.* Papilio, vol. 1, p. 184.1882. Life history, (fig.) *G. D. Hulst.* Bull. Brooklyn Entom. Soc., vol. 5, p. 17.FOOD PLANTS. *Fraxinus*, *Syringa*, (trunk and stem.)**Sannina exitiosa.** Say.1825. Pupa, cocoon. *Say.* Amer. Entom., vol. 2, pl. 19.1826. Larva. *Harris.* N. Engl'd Farmer, vol. 5, p. 33.1839. Larva. *Harris.* Silliman's Jour. Sc. Art, vol. 36.1843. Egg, larva. *Willis Gaylord.* Trans. N. York Agr. Soc., p. 161.1854. Larva, cocoon. *Emmons.* Nat. Hist. N. York, vol. 5, p. 223.1854. Egg, larva, pupa. *Fitch.* 1st Rept. Ins. N. York, pp. 108-116.1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 356.1859. Larva, pupa. *P. H. Gosse.* Letters from Alabama, p. 146.1862. Larva. *Morris,* (quotes Harris.) Synop. Lep. N. Amer., p. 140.1862. Larva, pupa, (figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 331.1865. Larva. *B. D. Walsh.* Practical Entom., p. 67.1869. Larva. *Riley.* 1st Missouri Rept., p. 47.1871. Larva. *Saunders.* Canad. Entom., vol. 3, p. 22.1873. Larva, pupa. *A. J. Cook.* 12th Rept. Michigan Board Agr., p. 136.1876. Egg, larva. *Cyrus Thomas.* Trans. Dept. Agr. Ill., vol. 14, p. 38.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 179.1879. Egg. *J. H. Comstock.* Rept. U. S. Dept. Agr., p. 254.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.1883. Egg, larva, pupa, (fig.) *Saunders.* Ins. Inj. Fruits, p. 192.1884. Egg, larva, cocoon, (fig.) *T. J. Edge.* Rept. Agr. Pennsylv., p. 104.1885. Egg, larva. *Fernald.* Kingsley's Stand. N. Hist., vol. 2, p. 464.FOOD PLANT. *Persica*, (peach trees.)**Ægeria pictipes.** G. and R.1879. Life history, (figs.) *J. S. Bailey.* N. Amer. Entom., vol. 1, p. 17.1880. Larva, pupa, (fig.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 109.FOOD PLANT. *Prunus*, (trunk and stem.)**Ægeria pyrl.** Harris.1839. Larva. *Harris.* Silliman's Jour. Sc. Art, vol. 36.1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 349.1862. Larva. *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 335.1862. Larva, (brief.) *Morris,* (quotes Harris.) Synop. Lep. N. Amer., p. 141.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 170.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.FOOD PLANT. *Pyrus*, (trunk and stem.)**Ægeria acerni.** Clem.1874. Larva, cocoon, pupa, (figs.) *Riley.* 6th Missouri Rept., pp. 107-110.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 173.1880. Larva, cocoon, (figs.) *J. Marten,* (after Riley.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 108.1881. Larva, (fig.) *Packard,* (quotes Riley.) Ins. Inj. Fruits, p. 107.1881. Life history. *Saunders.* Canad. Entom., vol. 13, p. 69.

1882. Life history, (brief.) *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 20.  
FOOD PLANT. *Acer*, (stems.)

***Ageria tipuliformis*. L.**

1828. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 1, p. 142.  
1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36.  
1848. Larva, (col'd fig.) *Humphreys*. Gener. Brit. Moths, p. 13, pl. 4.  
1851. Larva. *Harris*. Hovey's Magaz. Hort. , vol. 17, p. 241.  
1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 423.  
1857. Larva. *Stainton*. Manual Brit. Butt. and Moths, p. 106.  
1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 331.  
1865. Larva. *B. D. Wals*. Practical Entom., p. 29.  
1871. Life history, (brief.) *Saunders*. Rept. Entom. Soc. Ontario, p. 381.  
1872. Larva, (brief.) *J. G. Wood*. Insects at Home, p. 427.  
1873. Larva, cocoon. *A. J. Cook*. 12th Rept. Board Agr. Michigan, p. 140.  
1879. Egg, larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 76.  
1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 107.  
1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 151.  
1882. Larva, (col'd fig.) *W. F. Kirby*. Europ. Butt. and Moths, p. 78, pl. 20.  
1883. Life history, (brief.) *Saunders*. Ins. Inj. Fruits, p. 336.  
1885. Life history, (figs.) *Lintner*. 2d Rept. State Entom. N. York, p. 60.  
1888. Larva, pupa, (figs.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 54.  
FOOD PLANT. *Ribes*, (stems.)

***Ageria prosopis*. Hy. Edw.**

1882. Gall. *Hy. Edwards*. Papilio, vol. 2, p. 99.  
FEEDS in stems of *Prosopis*, making a gall.

***Ageria hemizoniæ*. Hy. Edw.**

1883. Larva. *J. J. Rivers*. Papilio, vol. 3, p. 26.  
FOOD PLANT. *Rubus*, (root and stems.)

**THYRIDÆ.**

***Thyris vitrina*. Boisd.**

1829. Larva. *Boisduval*, (after Abbot's drawing.) Monogr. Zygenidæ, p. 19.  
1874. Larva. *Boisduval*, (after Abbot's drawing.) Spec. Gener. Sphingidæ, p. 490.  
FOOD PLANT. *Phaseolus*.  
NOTE—This insect appears to be unknown to American entomologists.

**ZYGÆNIDÆ.**

***Alypia octomaculata*. Fabr.**

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 87, pl. 44.  
1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 314.  
1854. Larva, (col'd fig.) *Emmons*, (after Abb.-Sm.) Nat. Hist. N. York, vol. 5, pl. 38.  
1854. Larva. *Harris*. Rept. Ins. Inj. Vegetat. Trans. Amer. Pomological Soc., p. 10.  
1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 399.  
1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 132.  
1865. Pupa. *Packard*. Notes on Zygenidæ, Proc. Essex Inst., vol. 4, p. 24.  
1868. Larva. *W. F. Andrews*. Amer. Naturalist, vol. 2, p. 666.  
1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 136, pl. 1.  
1869. Larva. *Harris*. Entom. Corres., p. 285.  
1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 80, fig. 55.  
1872. Larva. *Lintner*, (quotes Harris.) 26th Rept. N. York State Cab. N. Hist., p. 120.  
1873. Larva, (col'd fig.) *Stretch*. Zygen. Bombyc. N. Amer., pl. 10.  
1874. Larva, (fig.) *Riley*. 6th Missouri Rept., p. 94.

1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 651.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 176.  
 1877. Larva, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 785.  
 1878. Larva, (fig.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 276.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 110.  
 1880. Larva, (fig.) *Coquillett*, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 172.  
 1881. Larva, (brief.) *W. W. Goldsmith*, (quotes Riley.) Kentucky Bureau Agr., p. 255.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 263.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 463.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.

**Psychomorpha epimenis.** Drury.

1869. Larva, (brief.) *Doubleday*, (quotes Abbot in lit.) Harris's Entom. Corres., p. 130.  
 1871. Larva, pupa, (figs.) *Riley*. 3d Missouri Rept., p. 64.  
 1872. Larva, (fig.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 121.  
 1873. Larva, (brief, col'd fig.) *Stretch*. Zygæn. Bombyc. N. Amer., p. 18, pl. 10.  
 1874. Larva, pupa, (figs.) *Riley*. 6th Missouri Rept., p. 88.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 177.  
 1880. Larva, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 111.  
 1880. Larva, (fig.) *Coquillett*, (quotes Lintner.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 172.  
 1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 264.  
 FOOD PLANTS. *Bignonia radicans*, *Vitis*.

**Euscirrhopterus gloveri.** Grote.

1887. Life history. *E. A. Popenoe*. The Industrialist, Oct. 1, (quoted in Entom. Amer.), vol. 3, p. 178.  
 1888. Larva, pupa, (figs.) *Riley*. Insect Life, vol. 1, p. 104.  
 FOOD PLANT. *Portulaca*.

**Eudryas unio.** Hübn.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 399.  
 1861. Pupa, (brief.) *J. Kirkpatrick*. Proc. Entom. Soc. Philad., p. 43.  
 1868. Larva, pupa. *J. Kirkpatrick*. Ohio Farmer, Feb. 8.  
 1870. Larva, (fig.) *Riley*. 2d Missouri Rept., p. 83, (in error for *P. epimenis*.)  
 1873. Larva, (brief.) *Stretch*. Zygæn. Bombyc. N. Amer. p. 150.  
 1874. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 118.  
 1874. Larva. *Riley*, (quotes Lintner.) 6th Missouri Rept., p. 92.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 178.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 111.  
 1880. Larva. *Coquillett*, (quotes Lintner.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 173.  
 1881. Larva, (brief.) *D. S. Kellicott*. Bull. Buffalo Soc. N. Sc., vol. 4, p. 29.  
 1883. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 262.  
 FOOD PLANT. *Vitis*.

**Eudryas grata.** Fabr.

1811. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 310.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 329.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 399.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 427.  
 1862. Larva. *Morris*, (quotes Harris.) Synop. Lep. N. Amer., p. 246.  
 1864. Larva, pupa, (figs.) *Packard*. Notes on Zygæn. Proc. Essex Inst., vol. 4, p. 27.  
 1869. Larva. *Harris*. Entom. Corres., p. 306.

1869. Larva. *Packard*. Guide to Study of Insects, p. 281.  
 1870. Larva, pupa, (figs.) *Riley*. 2d Missouri Rept., p. 83.  
 1871. Egg, larva, (figs.) *Lintner*. 26th Rept. State Cab. N. Hist., p. 123.  
 1874. Egg, larva, pupa, (figs.) *Riley*. 6th Missouri Rept., p. 89.  
 1875. Life history, (figs.) *Saunders*. Canad. Entom., vol. 7, p. 41.  
 1875. Egg, larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 38.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 178.  
 1880. Egg, larva, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 111.  
 1880. Egg, larva, (figs.) *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 173.  
 1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 259.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 462.  
 1888. Egg, larva, (figs.) *Fletcher*. Rept. Entom. Dept. Agr. Canad., p. 30.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.  
**Cosmosoma omphale**. *Hübner*.  
 1886. Larva, cocoon. *Gundlach*. Entom. Cubana, p. 239.  
 1886. Pupa, cocoon. *J. B. Smith*. Entom. Amer., vol. 1, p. 186.  
 FOOD PLANT. *Mikania*.  
**Scepsis edwardsii**. *Grote*.  
 1887. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 167.  
**Scepsis fulvicollis**. *Hübner*.  
 1880. Larva. *Coquillett*. Canad. Entom., vol. 12, p. 44.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 171.  
 FOOD PLANTS. *Grasses*.  
**Ctenucha virginica**. *Chapman*.  
 1862. Larva, cocoon, (brief.) *Packard*. 7th Rept. Maine Board Agr., p. 168.  
 1864. Egg, larva, cocoon, pupa, (figs.) *Packard*. Notes on Zygaen. Proc. Essex Inst., vol. 4, p. 36.  
 1872. Larva, cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 155.  
 1873. Larva, cocoon. *Stretch*, (quotes *Packard*.) Zygaen. Bombyc. N. Amer., p. 26.  
 1877. Larva, pupa, (col'd figs.) *Packard*. Half-hours with Insects, (frontisp.)  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 170.  
 FOOD PLANTS. *Grasses*.  
**Ctenucha multifaria**. *Walk.*  
 1874. Egg, young larva, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., p. 344.  
**Acolothus falsarius**. *Clem.*  
 1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 81.  
 1880. Larva, (brief.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 112.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.  
**Harrisina americana**. *Harris*.  
 1839. Larva. *Harris*. Silliman's Jour. Sc. Art, vol. 36, p. 315.  
 1844. Life history, (figs.) *Harris*. Hovey's Magazine, June vol. 10, p. 201.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 257.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 398.  
 1862. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 337.  
 1862. Larva, (brief.) *Packard*. Rept. Maine Board Agr., p. 168.  
 1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 85.  
 1873. Larva, (col'd fig.) *Stretch*. Zygaen. Bombyc. N. Am. r., pl. 10.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 179.  
 1880. Larva, cocoon. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 112.  
 1881. Larva, pupa, (brief.) *W. W. Goldsmith*, (quotes *Riley*.) Kentucky Bureau Agr., p. 255.

1883. Egg, larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 265.

1885. Larva, (fig.) *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 462.

FOOD PLANTS. *Vitis*, *Ampelopsis*.

***Lycomorpha pholus*. Drury.**

1839. Larva. *Harris*. *Silliman's Jour. Sc. Art*, vol. 36, p. 318.

1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 135.

1862. Larva, (brief.) *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 341.

1873. Larva. *Stretch*, (quotes *Harris*.) *Zygen. Bombyc. N. Amer.*, p. 42.

1885. Larva. *Fernald*, (quotes *Harris*.) *Kingsley's Stand. N. Hist.*, vol. 2, p. 462.

FOOD PLANTS. *Lichens*.

***Oeta aurea*. Fitch.**

1869. Larva, pupa, (figs.) *Riley*. 1st *Missouri Rept.*, p. 151.

1873. Larva. *Stretch*, (quotes *Riley*.) *Zygen. Bombyc. N. Amer.*, p. 241.

1881. Egg. *Riley*. *Papilio*, vol. 1, p. 110.

FOOD PLANT. *Ailanthus*.

**BOMBYCES.**

Sub-fam. **Nycteolidæ.**

***Sarothripa reveyana*. S. V.**

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 190.

1859. Larva, cocoon, pupa, (col'd figs.) *Humphreys*. *Genera Brit. Moths*, p. 49.

1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 294.

FOOD PLANT. *Salix*.

Sub-fam. **Lithosiidæ.**

***Nola ovilla*. Grote.**

1884. Larva, cocoon. *Packard*. *Amer. Naturalist*, vol. 18, p. 726.

FOOD PLANT. *Quercus*.

***Nola sorghiella*. Riley.**

1882. Larva, pupa, (figs.) *Riley*. *Rept. U. S. Dept. Agr.*, p. 187, pl. 11.

***Hypoprepia fucosa*. Hübner, (incl. vars.)**

1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 241.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 262.

1862. Larva, cocoon. *Harris*. *Ins. Inj. Vegetat.*, *Flint's edit.*, p. 342.

1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 256.

1871. Larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 36.

1873. Larva, cocoon. *Stretch*, (quotes *Harris*.) *Zygen. Bombyc. N. Amer.*, p. 47.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 184.

1880. Larva. *Coquillett*. *Canad. Entom.*, vol. 12, p. 45.

FOOD PLANT. *Lichens*.

***Cisthene subjecta*. Walk.**

1881. Larva, pupa. *Mary E. Murtfeldt*, (as *C. packardii*.) *Psyche*, vol. 3, p. 243.

FOOD PLANT. *Lichens*.

***Byssophaga nexa*. Boisd.**

1878. Egg, larva, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, June.

FOOD PLANT. *Lichens*.

***Eustixis pupula*. Hübner.**

1870. Larva, pupa, (fig.) *Packard*, (after *Abbot's drawing*.) *Amer. Naturalist*, vol. 4, p. 229.

FOOD PLANT. *Sideronytum tenax*.

***Euphanessa mendica*. Walk.**

1871. Egg, larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 227.

1873. Egg, larva. *Stretch*, (quotes *Saunders*.) *Zygen. Bombyc. N. Amer.*, p. 53.

1886. Larva, pupa. *G. D. Hulst*. *Entom. Amer.*, vol. 1, p. 167.

## Sub-fam. Dioptiidæ.

**Phryganidea californica.** Packard.

1873. Larva, pupa, (col'd figs.) *Stretch*. *Zygaen. Bombyc. N. Amer.*, p. 91, pl. 10.  
 1874. Egg, larval stages. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, Sept.  
 1877. Egg, larva. *Packard*, (quotes *Hy. Edwards*.) *Inj. Ins. West, Hayden's Rept.*, p. 808.  
 1881. Egg, larva, pupa. *Packard*, (quotes *Stretch* and *Hy. Edw.*) *Ins. Inj. Forest Trees*, p. 43.

FOOD PLANT. *Quercus*.

## Sub-fam. Arctiidæ.

**Crocota quinaria.** Grote.

1869. Larva. *Saunders*, (as *Arct. bimaculata*.) *Canad. Entom.*, vol. 2, p. 4.  
 FOOD PLANTS. *Taraxacum, Chenopodium, etc.*

**Utetheisa bella.** L.

1870. Larva, pupa, (figs.) *T. Glover*. *Rept. Dept. Agr.*, p. 80.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 113.  
 1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 128.  
 1886. Larva, pupa. *Gundlach*. *Entom. Cubana*, p. 258.  
 FOOD PLANTS. *Myrica, Lespedeza, Prunus, Crotalaria, etc.*

**Callimorpha interrupto-marginata.** De Beauv.

1878. Larva, (brief.) *C. G. Siewers*. *Canad. Entom.*, vol. 10, p. 84.

**Callimorpha confusa.** Lyman.

1887. Life history. *H. H. Lyman*. *Canad. Entom.*, vol. 19, p. 186.  
 FOOD PLANT. *Cynoglossum officinale*.

**Callimorpha clymene.** Esp.

1871. Larva, (brief.) *Riley*. *3d Missouri Rept.*, p. 134.  
 FOOD PLANT. *Quercus*.

**Callimorpha lecontei.** Boisd.

1868. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 20.  
 1871. Larva, pupa, (figs.) *Le Baron*. *2d Illinois Rept.*, p. 47.  
 1872. Larva. *Lintner*. *26th Rept. N. York State Cab. N. Hist.*, p. 142.  
 1873. Larva. *Stretch*, (quotes *Saunders*.) *Zygaen. Bombyc. N. Amer.*, p. 64.  
 1877. Larva. *French*, (quotes *Saunders*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 181.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 115.  
 1883. Larva, pupa, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 198.  
 FOOD PLANT. *Triosteum perfoliatum*.

**Callimorpha fulvicosta.** Clem.

1871. Larva, pupa, (figs.) *Riley*. *3d Missouri Rept.*, p. 132.  
 1873. Larva, pupa. *Stretch*, (quotes *Riley*.) *Zygaen. Bombyc. N. Amer.*, p. 64.  
 1877. Larva, (fig.) *French*, (after *Riley*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 180.  
 1880. Larva, (fig.) *J. Marten*, (after *Riley*.) *Trans. Dept. Agr. Ill.*, vol. 18, *Append.*, p. 113.  
 FOOD PLANTS. *Pyrus, Prunus*.

**Epicalia virginalis.** Boisd.

1873. Larva, (brief.) *Packard*. *Hayden's Survey Territ.*, p. 559.  
 1873. Larva, pupa, (col'd figs.) *Stretch*. *Zygaen. Bombyc. N. Amer.*, p. 71, pl. 10.  
 FOOD PLANT. *Lupinus* of various species.

**Platartia parthenos.** Harris.

1868. Larva. *Saunders*. *Canad. Entom.*, vol. 1, p. 5.  
 1870. Egg, larval stages, cocoon. *Lintner*. *24th Rept. N. York State Cab. N. Hist.*, p. 132.  
 1871. Larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 225.  
 FOOD PLANTS. *Lactuca, etc.*

**Euprepia americana.** Harris.

1863. Larva. *Fitch*. *9th Rept. Ins. N. York*, p. 801.  
 1863. Larva. *Saunders*. *Canad. Journ.*, new series, vol. 8, p. 352.

1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 28.  
 1866. Larva. *Packard*. Proc. Boston Soc. N. Hist., vol. 11, p. 34.  
 1869. Larva. *Harris*. Entom. Corres., p. 287.  
 1870. Egg, larval stages, *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 134.  
 1873. Larva. *Stretch*. Zygæn. Bombyc. N. Amer., p. 96.  
 1875. Life history. *R. Barker*. Canad. Entom., vol. 7, p. 149.  
 1876. Larva, (brief.) *H. H. Lyman*. Canad. Entom., vol. 8, p. 20.  
 FOOD PLANTS. *Lactuca*, etc.

**Arctia virgo.** L.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 123, pl. 62.  
 1840. Larva, cocoon, (brief.) *P. H. Gosse*. Canad. Naturalist, p. 222.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 244.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 265.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 229.  
 1858. Larva, pupa, (col'd figs.) *Duncan*. Natural. Library, vol. 22, p. 176.  
 1862. Larva, (brief.) *Morris*, (quotes Duncan.) Synop. Lep. N. Amer., p. 338.  
 1863. Larva, (brief.) *Saunders*. Canad. Journ., new series, vol. 8, p. 354.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 167.  
 1873. Larva. *Stretch*. Zygæn. Bombyc. N. Amer., p. 127.  
 FOOD PLANTS. *Chenopodiaceæ*, etc.

**Arctia saundersii.** Grote.

1863. Larva. *Saunders*, (as *A. parthenice*.) Proc. Entom. Soc. Philad., vol. 2, p. 28.  
 1863. Larva. *Saunders*, (as *A. parthenice*.) Canad. Journ., new series, vol. 8, p. 353.  
 1864. Larva. *Grote*, (quotes *Saunders*.) Proc. Entom. Soc. Philad., vol. 3, p. 75.  
 1873. Larva, pupa. *Saunders*. Rept. Entom. Soc. Ontario, p. 23.  
 FOOD PLANTS. *Chenopodiaceæ*, etc.

**Arctia achaia.** G. and R.

1873. Larva, pupa. *Stretch*. Zygæn. Bombyc. N. Amer., p. 125.  
 FOOD PLANTS. *Trifolium*, *Erodium*, et

**Arctia figurata.** Drury.

1878. Larva. *E. L. Graef*. Bull. Brooklyn Entom. Soc., vol. 1, p. 3.

**Arctia quensellii.** Geyer.

1873. Larva, (fig.) *Packard*. Hayden's Surv. Territ., p. 558.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 105.  
 FOOD PLANTS. *Lonicera*, *Taraxacum*.

**Arctia phyllira.** Drury.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 127, pl. 64.

**Arctia nais.** Drury.

1877. Larva. *French*, (as *A. phalerata*.) Trans. Dept. Agr. Ill., vol. 15, p. 182.  
 1880. Larva. *J. Marten*, (as *A. phalerata*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.  
 1880. Larva. *Coquillett*, (as *A. phalerata*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 171.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 460.  
 FOOD PLANTS. *Cramineæ*, etc.

**Arctia cella.** Saunders.

1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 74.

**Arctia virguncula.** Kirby.

1881. Larva. *Coquillett*. Papilio, vol. 1, p. 7.  
 FOOD PLANT. *Polygonum*.

**Arctia decorata.** Saunders.

1881. Larva. *French*. Papilio, vol. 1, p. 81.

**Arctia placentia.** Abb.-Sm.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 129, pl. 65.

**Arctia arge.** Drury.

1796. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 125, pl. 63.  
 1837. Larva. *Westwood*, (quotes Abb.-Sm.) in Drury. Illus. Exot. Entom., vol. 1, p. 34.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 244.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 265.  
 1854. Larva, pupa, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, pl. 41.  
 1858. Larva, (col'd fig.) *Duncan*. Natural. Library, vol. 22, p. 175.  
 1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 346.  
 1862. Larva. *Morris*, (quotes Duncan.) Synop. Lep. N. Amer., p. 340.  
 1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 355, (as *A. dione*.)  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 168.  
 1869. Larva. *Harris*. Entom. Corres., p. 286.  
 1872. Larva. *Lintner*. 26th Rept. N. Y. State Cab. N. Hist., p. 143.  
 1873. Larva. *Stretch*, (quotes Harris.) Zygien. Bombyc. N. Amer., p. 225.  
 1874. Larva. *Peabody*. Canad. Entom., vol. 6, p. 98.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 182.  
 1877. Egg, larva. *W. F. Andrews*. Psyche, vol. 2, p. 79.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 170.  
 FOOD PLANT. *Eriothera biennis*.

**Arctia brucei.** Hy. Edwards.

1888. Larva. *D. Bruce*. Entom. Amer., vol. 3, p. 219.  
 FOOD PLANTS. *Polygonum*, *Plantago*.

**Arctia remissa.** Hy. Edwards.

1888. Egg, young larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 184.

NOTE. The food plants of the species of *Arctia* are not always given, as the caterpillars are almost omnivorous, feeding upon any kind of herbaceous plants.

**Kodiosoma nigra.** Stretch.

1873. Larva, (brief.) *Stretch*. Zygwn. Bombyc. N. Amer., p. 68.

**Seirarctia echo.** Abb.-Sm.

1797. Larva, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 135, pl. 68.

**Seirarctia clio.** Packard.

1882. Larva, cocoon. *Behr*. Papilio, vol. 2, p. 187.

FOOD PLANT. *Apocynum*.

**Pyrrharctia isabella.** Abb.-Sm.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, pl. 66.  
 1840. Larva. *P. H. Gosse*. Canad. Naturalist, pp. 78, 308.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 253.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 273.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 229.  
 1862. Larva, cocoon, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 355.  
 1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 364.  
 1867. Larva. *S. Tenney*. Manual N. Hist., p. 397.  
 1872. Larva, pupa, (fig.) *Riley*. 4th Missouri Rept., p. 143.  
 1873. Larva, cocoon, (figs.) *Saunders*. Canad. Entom., vol. 5, p. 76.  
 1873. Larva, cocoon, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 22.  
 1874. Larva, cocoon. *Hy. Edwards*. Proc. Cal. Acad. Sc., September.  
 1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 664.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 182.  
 1877. Larva, cocoon, pupa, (fig.) *B. Gott*. Rept. Entom. Soc. Ontario, p. 46.  
 1878. Larva. *B. P. Mann*, (quotes Harris.) Psyche, vol. 2, p. 270.  
 1880. Larva, cocoon, pupa, (figs.) *Riley*. Amer. Entom., 2d series, vol. 1, p. 133.  
 1880. Larva, cocoon, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.

1880. Larva, cocoon, pupa, (figs.) *Coquillett*. Loc. cit., 169.

FOOD PLANTS. Various low herbs.

***Phragmatobia rubricosa*. Harris.**

1840. Larva, (brief.) *P. H. Gosse*. Canad. Naturalist, p. 195, (as *P. fuliginosa*.)

1883. Larva, cocoon, pupa. *Edwards—Elliot*. Papilio, vol. 3, p. 127.

1887. Young larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 68.

FOOD PLANTS. *Solidago*, *Eupatorium*, *Symplocarpus*.

***Antarctia vagans*. Boisd.**

1874. Larva, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., February.

FOOD PLANT. *Pteris*.

***Antarctia punctata*. Packard.**

1873. Larva, cocoon. *Stretch*. Zygæn. Bombyc. N. Amer., p. 194.

FOOD PLANT. *Lupinus*.

***Leucarctia acraea*. Drury.**

1797. Larva (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, pl. 67.

1823. Larva, pupa, (figs.) *Harris*. Massachusetts's Agr. Reposit., p. 322.

1841. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., 1st edit., p. 249.

1852. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 269.

1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 226.

1858. Larva, pupa, (fig.) *Duncan*. Natural Library, vol. 22, p. 172, pl. 20.

1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 351.

1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 342.

1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 363.

1867. Larva, pupa, (figs.) *S. Toney*. Manual N. Hist., p. 398, pl. 294.

1874. Young larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., September.

1873. Larva, (col'd figs.) *Stretch*. Zygæn. Bombyc., p. 101, pl. 10.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 79.

1877. Larva. *French*. Loc. cit., p. 183.

1879. Larva, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 57.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 115.

1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 170.

FOOD PLANTS. Various low herbs.

***Spilosoma virginica*. Fabr.**

1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 248.

1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 268.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York., p. 400.

1862. Larva, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 349.

1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 344.

1863. Larva. *Saunders*. Canad. Jour., new series, vol. 8, p. 362.

1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 168.

1869. Larva, cocoon, pupa. *Harris*. Entom. Corres., p. 287.

1871. Larva, pupa, (figs.) *Riley*. 3d Missonri Rept., p. 68.

1871. Larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 358.

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 143.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 89.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 183.

1878. Larva, pupa, (figs.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 273.

1879. Larva, cocoon, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 54.

1880. Larva, pupa. *Saunders*. Canad. Entom., vol. 12, p. 56.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 116.

1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 169.

1880. Life history, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 21.

1831. Larva, pupa, (figs.) *Packard*, (after *Riley*.) Ins. Inj. Forest Trees, p. 88.

1883. Life history, (figs.) *Saunders*. Ins. Inj. Fruits, p. 273.

1887. Egg, larva. *D. Bruce*, (melanic var.) Entom. Amer., vol. 3, p. 140.

FOOD PLANTS. Various.

**Spilosoma congrua.** Walker.1886. Larva. *G. D. Hulst.* Entom. Amer., vol. 2, p. 15.**Spilosoma vestalis.** Packard.1875. Egg, larval stages. *H. Edwards.* Proc. Cal. Acad. Sc., April.FOOD PLANT. *Lupinus.***Spilosoma latipennis.** Stretch.1885. Young larva. *G. D. Hulst.* Bull. Brooklyn Entom. Soc., vol. 7, p. 120.**Hyphantria cunea.** Drury. (includ. vars.)1797. Larva, (col'd fig.) *Abbot-Smith.* Lep. Ins. Georgia, p. 139, pl. 70.1828. Larva. *Harris.* N. Engl'd Farmer, vol. 7, p. 33.1841. Larva, pupa. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 255.1852. Larva. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 274.1856. Larva. *Fitch.* 3d Rept. Ins. N. York, p. 382.1862. Larva, cocoon, pupa, (figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 358.1862. Larva. *Morris.* (quotes Harris.) Synop. Lep. N. A., p. 344.1863. Larva. *Saunders.* Canad. Jour., new series, vol. 8, p. 365.1869. Larva. *Harris.* Entom. Corres., p. 360.1870. Larva. *Saunders.* Canad. Entom., vol. 3, p. 36.1871. Larva, pupa, (figs.) *Riley.* 3d Missouri Rept., p. 130.1871. Larva, pupa, (figs.) *Bethune.* Rept. Entom. Soc. Ontario, p. 355.1871. Larva, nest. *Le Baron.* 2d Illinois Rept., p. 18.1873. Larva. *Saunders.* Canad. Entom., vol. 5, p. 141.1873. Larva. *Stretch.* (quotes Saunders—Riley.) Zygen. Bombyc. N. Amer., p. 206.1873. Larva, pupa, (figs.) *Saunders.* Rept. Entom. Soc. Ontario, p. 13.1875. Larva, pupa, (figs.) *A. J. Cook.* 12th Rept. Michigan Board Agr., p. 152.1876. Larva. *G. H. Perkins.* 2d Rept. Vermont Board Agr., p. 589.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 185.1877. Larva, pupa, (figs.) *Packard.* Inj. Ins. West, Hayden's Rept., p. 794.1879. Larva, pupa, (figs.) *H. Cutting.* Rept. N. Hampshire Board Agr., p. 22.1880. Larva, pupa, (figs.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 116.1880. Larva, pupa, (figs.) *Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 154.1881. Larva, pupa, (figs.) *Packard.* (quotes Riley.) Ins. Inj. Forest Trees, p. 67.1883. Larva, (brief.) *N. Coleman.* Papilio, vol. 3, p. 26.1883. Larva, cocoon, pupa, (figs.) *Saunders.* Ins. Inj. Fruits, p. 71.1887. Life history, (figs.) *Riley.* Bull. 10, Div. Entom., U. S. Dept. Agr., pp. 36-58.1887. Life history, (figs.) *Riley.* Rept. U. S. Dept. Agr., 1886, pp. 518-539, pl. 10, 11.1888. Larva, pupa, (fig.) *Bethune.* 18th Rept. Entom. Soc. Ontario, p. 58.

FOOD PLANTS. Various trees and shrubs.

**Euchætes egle.** Drury.1841. Larva, pupa. *Harris.* Ins. Inj. Vegetat., 1st edit., p. 256.1852. Larva, cocoon, pupa. *Harris.* Ins. Inj. Vegetat., 2d edit., p. 276.1862. Larva, cocoon, pupa, (figs.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 359.1862. Larva, (brief.) *Morris.* Synop. Lep. N. Amer., p. 343.1863. Larva, pupa, (brief.) *Saunders.* Canad. Jour., new series, vol. 8, p. 366.1869. Larva, (figs.) *Harris.* Entom. Corres., p. 288.1870. Larva. *Lintner.* 21th Rept. N. York State Cab. N. Hist., p. 136.1873. Larva. *Stretch.* (quotes Harris.) Zygen. Bombyc. N. Amer., p. 186.1878. Larva. *W. F. Andrews.* Psyche, vol. 2, p. 271.1880. Life history, (brief.) *H. S. Jewell.* Canad. Entom., vol. 12, p. 230.

1883. Larva. *Hy. Edwards*. *Papilio*, vol. 3, p. 147.

1884. Egg, larval stages. *French*. *Canad. Entom.*, vol. 16, p. 221.

FOOD PLANTS. Various species of *Asclepias*.

***Euchaetes eglenensis*. Clemens.**

1883. Larva. *Hy Edwards*. *Papilio*, vol. 3, p. 147.

FOOD PLANT. *Asclepias tuberosum*.

***Euchaetes collaris*. Fitch.**

1877. Larva. *G. H. Van Waggen*. *Canad. Entom.*, vol. 9, p. 170.

1878. Larva, pupa. *W. H. Patten*. *Psyche*, vol. 2, p. 251.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 169.

1880. Life history. *H. S. Jewett*. *Canad. Entom.*, vol. 12, p. 228.

1883. Larval stages. *Hy. Edwards*. *Papilio*, vol. 3, p. 146.

FOOD PLANTS. *Apocynum*, *Asclepias*.

***Arachnis aulea*. Boisd.**

1883. Larva, pupa. *W. Schaus, jr.* *Papilio*, vol. 3, p. 188.

FOOD PLANTS. Various low herbs.

***Arachnis picta*. Packard.**

1873. Larva, pupa. *Stretch*. *Zygæn. Bombyc. N. Amer.*, p. 84, pl. 10.

FOOD PLANT. *Lupinus*.

***Ecpantheria scribonia*. Stoll.**

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 137, pl. 69.

1841. Larva. *Harris*, (quotes Abb.-Sm.) *Ins. Inj. Vegetat.*, 1st edit., p. 247.

1858. Larva. *Duncan*. *Natural Library*, vol. 22, p. 169.

1862. Larva. *Morris*, (quotes Duncan.) *Synop. Lep. N. Amer.*, p. 347.

1863. Larva. *Saunders*. *Proc. Entom. Soc. Philad.*, vol. 2, p. 28.

1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 370.

1872. Larva, pupa, (fig.) *Riley*. *4th Missouri Rept.*, p. 141.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 184.

1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 116.

1882. Larva, (fig.) *Saunders*. *Canad. Entom.*, vol. 14, p. 113.

1882. Larva, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 15.

FOOD PLANTS. *Helianthus*, *Plantago*, *Salix*.

***Ecpantheria reducta*. Gr.**

1887. Larva. *D. Bruce*. *Entom. Amer.*, vol. 3, p. 14.

FOOD PLANTS. *Taraxacum*, *Stellaria*, etc.

***Halisidota tessellata*. Abb.-Sm. (incl. vars.)**

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 149, pl. 75.

1840. Larva, cocoon. *P. H. Gosse*. *Canad. Naturalist*, p. 293.

1841. Larva, pupa. *Harris*, (quotes Abb.-Sm.) *Ins. Inj. Vegetat.*, 1st edit., p. 259.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 280.

1862. Larva. *Morris*, (quotes Harris.) *Synop. Lep. N. Amer.*, p. 349.

1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 364.

1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 367.

1863. Larva. *B. D. Walsh*. *Proc. Boston Soc. N. Hist.*, vol. 9, p. 289.

1864. Larva. *B. D. Walsh*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 413.

1864. Larva. *B. D. Walsh*. *Proc. Entom. Soc. Philad.*, vol. 3, p. 430.

1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 116.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 13, Append., p. 168.

1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 460.

FOOD PLANT. *Acer*.

***Halisidota caryæ*. Harris.**

1841. Larva, pupa. *Harris*. *Ins. nj. Vegetat.*, 1st edit., p. 258.

1852. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 279.

1854. Larva, pupa, (figs.) *Fitch*. *1st Rept. Ins. N. York*, p. 160.

1856. Larva. *Fitch*. *3d Rept. Ins. N. York*, p. 458.

1862. Larva, cocoon, (col'd figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 361, pl. 6.  
 1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 348.  
 1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 368.  
 1869. Larva. *Harris*. *Entom. Corres.*, p. 289.  
 1872. Cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 148.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 168.  
 1881. Larva. *Packard*, (quotes *Fitch*.) *Ins. Inj. Forest Trees*, p. 76.  
 FOOD PLANTS. *Carya*, *Juglans*, etc.

***Halisidota maculata*. *Harris*, (incl. vars.)**

1841. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 259.  
 1852. Larva, (brief.) *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 279.  
 1862. Larva, (brief.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 363.  
 1863. Larva. *Saunders*. *Canad. Jour.*, new series, vol. 8, p. 369.  
 1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 290, pl. 9.  
 1869. Larva. *Packard*. *Guide to Study of Ins.*, p. 287.  
 1871. Larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 186.  
 1873. Larva, cocoon, (col'd figs.) *Stretch*. *Zygan. Bombyc. N. Amer.*, p. 103, pl. 10.  
 1876. Larva, cocoon. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, November.  
 1881. Larva. *Packard*, (quotes *Saunders*.) *Ins. Inj. Forest Trees*, p. 46.  
 FOOD PLANTS. *Salix*, *Populus*, etc.

***Halisidota argentata*. *Packard*.**

1874. Larva, cocoon, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, September.  
 FOOD PLANTS. *Pinus*, *Abies*.

***Halisidota sobrina*. *Stretch*.**

1874. Larva, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, September.  
 1887. Larva, (brief.) *J. Fletcher*. *Rept. Entom. Dept. Agr. Canad.*, p. 34.  
 FOOD PLANT. *Pinus*.

***Halisidota edwardsii*. *Packard*.**

1873. Larva, (col'd fig.) *Stretch*. *Zygan. Bombyc. N. Amer.*, p. 88, pl. 10.  
 1875. Egg, young larva. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, April.  
 FOOD PLANT. *Quercus*.

***Halisidota cinctipes*. *Grote*.**

1886. Larva. *Gundlach*. *Entom. Cubana*, p. 269.  
 FOOD PLANT. *Hibiscus*.

Sub-fam. **Pericopidae.*****Gnophæla hopfferi*. *G. and R.***

1882. Larva, (brief.) *Stretch*, (quotes *Lord Walsingham* in lit.) *Papilio*, vol. 2, p. 82.  
 FOOD PLANT. *Myosotis*.

***Gnophæla verniculata*. *Gr. Rob.***

1888. Larva. *D. Bruce*. *Entom. Americana*, vol. 4, p. 24.  
 1889. Larva. *T. D. Cockerill*. *Entom. Amer.*, vol. 5, p. 57.  
 FOOD PLANT. *Mertensia virginica*.

***Melanchroia geometroides*. *Walker*.**

1886. Larva, pupa. *Gundlach*. *Entom. Cubana*, p. 410.  
 FOOD PLANT. *Cicca racemosa*.

Sub-fam. **Liparidae.*****Orgyia nova*. *Fitch*.**

1829. Egg, (fig.) *W. T. Bree*. *Mag. Nat. Hist.*, vol. 2, p. 460, (as *O. antiqua*.)  
 1841. Larva, pupa. *Harris*, (as *O. antiqua*.) *Ins. Inj. Vegetat.*, 1st edit., p. 262.  
 1852. Larva, cocoon. *Harris*, (as *O. antiqua*.) *Ins. Inj. Vegetat.*, 2d edit., p. 284.  
 1862. Life history. *Fitch*. 8th Rept. *Ins. N. York*, p. 675.

1862. Larva, cocoon. *Harris*, (as *O. antiqua*.) *Ins. Inj. Vegetat.*, Flint's edit., p. 369.

1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 250.

1873. Egg, larva. *Hy. Edwards*, (as *O. badia*.) *Proc. Cal. Acad. Sc.*, November.

1880. Egg. *W. S. B.* *Amer. Entom.*, vol. 1, 2d series, p. 77.

1880. Cocoon. *W. S. B.* *Loc. cit.*, p. 132.

1883. Larva, (brief.) *Hy. Edwards*. *Papilio*, vol. 3, p. 189.

1883. Egg, larva. *Stretch*. *Loc. cit.*, p. 38.

1887. Egg, larval stages. *Hy. Edwards*. *Entom. Amer.*, vol. 3, p. 146.

FOOD PLANTS. *Rosaceae*, etc.

***Orgyia vetusta*.** *Boisd.*

1881. Larva. *Hy. Edwards*. *Papilio*, vol. 1, p. 60.

FOOD PLANT. *Lupinus*.

***Orgyia gulosa*.** *Hy. Edwards*.

1881. Larva. *Hy. Edwards*. *Papilio*, vol. 1, p. 61.

FOOD PLANT. *Quercus*.

***Orgyia leucostigma*.** *Abb.-Sm.*

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 157, pl. 79.

1833. Egg. *B. H. Ives*. *Hovey's Gardener's Mag.*, vol. 1, p. 52.

1841. Larva, pupa. *Harris*, (quotes *Abb.-Sm.*) *Ins. Inj. Vegetat.*, 1st edit., p. 262.

1852. Egg, larva, cocoon. *Harris*, (quotes *Ives* in part.) *Ins. Inj. Vegetat.*, 2d edit., p. 284.

1854. Larva, (col'd fig.) *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 230, pl. 37.

1856. Larva, cocoon, pupa. *Fitch*. 2d Rept. *Ins. N. York*, p. 210.

1862. Life history, (col'd figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 366, pl. 7.

1862. Larva. *Morris*, (quotes *Harris*.) *Synop. Lep. N. Amer.*, p. 249.

1864. Larva, (fig.) *Jaeffer*. *Life N. Amer. Ins.*, p. 169.

1869. Life history, (figs.) *Riley*. 1st *Missouri Rept.*, p. 144.

1871. Life history, (figs.) *Le Baron*, (after *Riley*.) 2d *Illinois Rept.*, p. 13.

1871. Egg, larva. *Saunders*. *Canad. Entom.*, vol. 3, p. 15.

1871. Larva, cocoon, pupa, (figs.) *Bethune*. *Rept. Entom. Soc. Ontario*, p. 354.

1874. Egg, larva, pupa, (figs.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 19.

1877. Larva, (fig.) *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 185.

1880. Larva. *French*, (as *O. leucographa*.) 6th Rept. *S. Ill. Norm. Univ.*, p. 44.

1880. Larva, (fig.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 117.

1880. Larva, (fig.) *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 166.

1881. Larva, cocoon, pupa, (figs.) *Packard*, (after *Riley*.) *Ins. Inj. Forest Trees*, p. 239.

1883. Life history, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 58.

1885. Life history, (figs.) *Lintner*. 2d Rept. *State Entom. N. York*, p. 70.

1887. Life history, (figs.) *Riley*. *Bull. 10, Div. Entom. U. S. Dept. Agr.*, pp. 23-28.

1888. Larva, (fig.) *Lintner*. 4th Rept. *N. Y. State Entom.*, p. 48.

FOOD PLANTS. *Acer*, *Pyrus*, *Quercus*, etc.

***Orgyia definita*.** *Packard*.

1888. Larva, notes on. *Lintner*. 4th Rept. *N. Y. State Entom.*, p. 50.

***Parorgyia leucophæa*.** *Abb.-Sm.*

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 155, pl. 78.

1841. Larva. *Harris*. (quotes *Abb.-Sm.*) *Ins. Inj. Vegetat.*, 1st edit., p. 264.

FOOD PLANT. *Quercus*.

***Parorgyia clintonii*.** *S. and R.*

1880. Larva. *Coquillett*. *Canad. Entom.*, vol. 12, p. 45.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 165.

FOOD PLANT. *Quercus*.

**Parorgyia achatina.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbott-Smith*. Lep. Ins. Georgia, p. 153, pl. 77.FOOD PLANT. *Quercus*.**Parorgyia parallela.** G. and R.1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 129.1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 166.1881. Larva. *Packard*, (quotes *Lintner*.) Ins. Inj. Forest Trees, p. 204.1883. Larva. *Saunders*. Ins. Inj. Fruits, p. 179.1887. Life history. *O. Seiffert*. Entom. Amer., vol. 3, p. 93.FOOD PLANTS. *Pyrus*, *Prunus*, *Aesculus*, etc.**Lagoa crispata.** Packard.1864. Larva, cocoon, pupa. *Packard*. Proc. Entom. Soc. Philad., vol. 3, p. 335.1866. Larva, (brief.) *B. D. Walsh*. Practical Entom., vol. 1, p. 126.1869. Larva, (fig.) *Packard*. Guide to Study of Ins., p. 288.1870. Life history. *Lintner*. 4th Rept. N. York State Cab. N. Hist., p. 138.1881. Larva, cocoon, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 176.1885. Larva, (fig.) *Packard*. Amer. Naturalist, vol. 19, p. 714.FOOD PLANTS. *Ulmus*, *Myrica*, *Pyrus*, etc.**Lagoa opercularis.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbott-Smith*. Lep. Ins. Georgia, p. 105, pl. 53.1841. Larva. *Harris*, (quotes Abb.-Sm.) Ins. Inj. Vegetat., 1st edit., p. 261.1856. Larva. *Fitch*, (? *crispata*.) 3d Rept. Ins. N. York, p. 363.1876. Larva, (brief.) *Mary E. Murtfeldt*. Canad. Entom., vol. 8, p. 201.1885. Larva, cocoon, (figs.) *Hubbard*. Ins. Affect. Orange, p. 140.1888. Life history, (brief,) (figs.) *Lintner*, (quotes *Hubbard*.) 4th Rept. N. Y. State Entom., p. 51.FOOD PLANTS. *Citrus*, *Pyrus*, etc.**Lagoa pyxidifera.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbott-Smith*. Lep. Ins. Georgia, p. 107, pl. 54.FOOD PLANTS. *Vaccinium*, *Quercus*, etc.Sub-fam. *Cochliopodæ*.**Euclea cippus.** Cram. (Querceti. H. Sch.)1797. Larva, (col'd fig.) *Abbott-Smith*. Lep. Ins. Georgia, p. 145, pl. 73.1841. Larva. *Harris*, (quotes Abb.-Sm.) Ins. Inj. Vegetat., 1st edit., p. 303.1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 323.1858. Larva, (col'd fig.) *Duncan*. Natural. Library, vol. 22, p. 178, pl. 21.1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 421.1862. Larva. *Morris*, (quotes *Duncan*.) Synop. Lep. N. Amer., p. 126.1864. Larva. *Packard*. Proc. Entom. Soc. Philad., vol. 3, p. 337.1869. Larva, (fig.) *Harris*. Entom. Corres., p. 176, pl. 2.1878. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 272.1881. Larva. *French*. Papilio, vol. 1, p. 145.FOOD PLANTS. *Prunus*, *Pyrus*, *Salix*, etc.**Euclea pænulata.** Clem.1881. Larva. *French*. Papilio, vol. 1, p. 144.FOOD PLANT. *Salix*.**Parasa chloris.** H. Sch.1864. Larva. *T. Reakirt*. Proc. Entom. Soc. Philad., vol. 3, p. 251.1875. Larva. *A. G. Wetherby*. Cincinnati Jour. Sc., vol. 2, p. 368.1878. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 271.1883. Larva. *Edwards-Elliott*. Papilio, vol. 3, p. 128.1885. Larva. *French*. Canad. Entom., vol. 17, p. 160.FOOD PLANTS. *Ulmus*, *Myrica*, etc.**Parasa fraterna.** Gr.1887. Larva. *H. Edwards*. Entom. Amer., vol. 3, p. 169.FOOD PLANTS. *Cerasus*, etc.

**Nochelia tardigrada.** Clem.1860. Larva. *Clemens*. Proc. Acad. N. Sc. Philad., p. 159.1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 131.FOOD PLANT. *Apricot*, (Clemens.)**Empretia stimulea.** Clem.1860. Larva. *Clemens*. Proc. Acad. N. Sc. Philad., p. 159.1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 130.1869. Larva, (fig.) *Harris*, (as *Lim. ephippiatus*.) Entom. Corres., p. 175, pl. 2.1869. Larva. *Packard*. Guide to Study of Ins., p. 289.1872. Cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 149.1876. Larva. *A. G. Wetherby*. Cincin. Jour. Sc., vol. 2, p. 369.1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 187.1880. Larva. *J. Marten*, (quotes Clemens.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 117.1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 113.1885. Larva, cocoon, (col'd figs.) *H. G. Hubbard*. Ins. Affect. Orange, p. 142.FOOD PLANTS. *Ulmus*, *Myrica*, *Prunus*, *Citrus*, etc.**Phobetron pithecium.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 147, pl. 74.1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 304.1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 321.1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 381.1858. Larva, (col'd fig.) *Duncan*. Natural. Library, vol. 22, p. 185, pl. 21.1862. Larva, cocoon, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 421.1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 127.1872. Cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 149.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 47.1883. Larva, cocoon, (fig.) *Saunders*. Ins. Inj. Fruits, p. 112.1885. Larva, cocoon, (col'd figs.) *H. G. Hubbard*. Ins. Affect. Orange p. 143FOOD PLANTS. *Prunus*, *Quercus*, etc.**Phobetron hyalinum.** Walsh.1863. Larva. *B. D. Walsh*. Proc. Boston Soc. N. Hist., vol. 9, p. 297.FOOD PLANT. *Prunus*.**Limacodes scapha.** Harris.1852. Larva, (brief.) *Harris*. Ins. Inj. Vegetat., 2d edit., p. 323.1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 420.1864. Larva, (brief.) *Packard*, (quotes Shurtleff in lit.) Proc. Entom. Soc. Philad., vol. 3, p. 341.1869. Larva, (fig.) *Harris*. Entom. Corres., pp. 176, 300, pl. 3.1873. Larva. *Stretch*, (quotes Harris.) Zygæn. Bombyc. N. Amer., p. 201.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 77.1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 128.1885. Larva, (col'd fig.) *H. G. Hubbard*. Ins. Affect. Orange, p. 144.FOOD PLANTS. *Prunus*, *Myrica*, *Ulmus*, *Pyrus*, *Citrus*, etc.**Limacodes biguttata.** Packard.1873. Cocoon. *Stretch*. Zygæn. Bombyc. N. Amer., p. 202.**Limacodes fasciola.** H. Sch.1860. Larva. *Clemens*. Proc. Acad. N. Sc. Philad., p. 157.1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 128.1872. Larva, (brief.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 149.1881. Larva. *Packard*, (quotes Clemens.) Ins. Inj. Forest Trees, p. 112.1883. Larva, cocoon, (brief.) *Saunders*. Ins. Inj. Fruits, p. 179.FOOD PLANT. *Acer*.

NOTE.—These descriptions include *L. latielavia*, Clem., which I believe to be a distinct species.—H. E.

**Sisyrosea inornata.** G. and R.1887. Larva. *G. D. Hulst.* Entom. Amer., vol. 3, p. 66.1889. Larva. *H. G. Dyar.* Canad. Entom., vol. 21, p. 77.FOOD PLANT. *Myrica cerifera*.**Adoneta spinuloides.** H. Sch.1860. Larva. *Clemens.* Proc. Acad. Sc. Philad., p. 168.1862. Larva. *Morris*, (quotes Clemens.) Synop. Lep. N. Amer., p. 129.1882. Larva. *Mrs. Ballard.* Papilio, vol. 2, p. 83.1883. Larva. *Edwards—Elliot.* Papilio, vol. 3, p. 129.FOOD PLANT. *Prunus*, etc.**Packardia fusca.** Packard.1864. Cocoon, pupa. *Packard.* Proc. Entom. Soc. Philad., vol. 3, p. 343.**Kronæa minuta.** Reakirt.1864. Larva, pupa. *T. Reakirt.* Proc. Entom. Soc. Philad., vol. 3, p. 251.Sub-fam. **Psychidæ.****Psyche confederata.** Grote and Rob.1868. Larval case, (fig.) *Grote—Robinson.* Trans. Amer. Entom. Soc., vol. 2, p. 191, pl. 3.1885. Larval case, (fig.) *H. G. Hubbard.* Ins. Affect. Orange, p. 148.1887. Larva, pupa. *Hy. Edwards.* Entom. Amer., vol. 3, p. 168.**Psyche fragmentella.** Hy. Edwards.1876. Larval case. *Hy. Edwards.* Proc. Cal. Acad. Sc., November.**Psyche coniferella.** Hy. Edwards.1876. Larval case. *Hy. Edwards.* Proc. Cal. Acad. Sc., November.**Platæceticus gloveri.** Packard.1869. Larva, case, pupa, (figs.) *Packard.* Guide to Study of Ins., p. 291.1883. Larva, case, pupa, (figs.) *Saunders*, (after Packard.) Ins. Inj. Fruits, p. 380.1885. Case, pupa, (figs.) *H. G. Hubbard.* Ins. Affect. Orange, p. 149.FOOD PLANT. *Citrus*.**Thyridopteryx ephemeræformis.** Haworth.1853. Larva, case. *Harris.* Downing's Hortic., vol. 8, p. 461, (as *Oik. coniferarum*.)1855. Larva, case, pupa. *T. Glover.* Trans. N. York State Agr. Soc., p. 79.1859. Larva, case. *P. H. Gosse.* Letters from Alabama, p. 283.1864. Case. *Packard.* Proc. Entom. Soc. Philad., vol. 3, p. 351.1866. Larva, case. *B. D. Walsh.* Practical Entom., vol. 2, pp. 22, 84.1866. Larva, case. *S. S. Rathvon.* Loc. cit., p. 53.1869. Life history, (figs.) *Riley.* 1st Missouri Rept., p. 147.1869. Larva. *Harris*, (as *Oik. coniferarum*.) Entom. Corres., pp. 176, 300.1869. Larva, case, (fig.) *Packard.* Guide to Study of Ins., p. 291.1877. Larva, case. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 187.1880. Egg, larva, case, pupa, (figs.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 118.1881. Larva, case. *Packard.* Ins. Inj. Forest Trees, p. 248.1881. Life history. *Helen S. King.* Psyche, vol. 3, p. 241.1883. Young larva. *Hy. Edwards.* Papilio, vol. 3, p. 24.1883. Life history, (figs.) *Saunders.* Ins. Inj. Fruits, p. 222.1885. Larval case, pupa. *H. G. Hubbard.* Ins. Affect. Orange, p. 147.1886. Life history. *W. MacFarland.* Jour. Trenton N. H. Soc., vol. 1, p. 1.1887. Life history, (figs.) *Riley.* Bull. 10, Div. Entom. U. S. Dept. Agr., pp. 23-28.1888. Egg, larval case, larva, pupa, (figs.) *Grote.* 18th Rept. Entom. Soc. Ontario, p. 74.FOOD PLANTS. *Pinna*, *Cupressus*, *Salix*, *Quercus*, etc.

**Thyridoptery meadii.** Hy. Edwards1881. Larval case. *Hy. Edwards. Papilio*, vol 1, p. 116.**Oiketicus abbotii.** Grote.1880. Larva, case. *Grote. N. Amer. Entom.*, p. 52.1885. Life history, (figs.) *H. G. Hubbard. Ins. Affect. Orange*, p. 144, pl. 12.FOOD PLANTS. *Citrus*, etc.**Oiketicus davidsonii.** Hy. Edwards.1876. Larval case, pupa, (figs.) *Hy. Edwards. Proc. Cal. Acad. Sc.*, November.**Perophora melsheimeri.** Harris.1841. Larva, case, pupa. *Harris. Ins. Inj. Vegetat.*, 1st edit., p. 301.1852. Larva, case, pupa. *Harris. Ins. Inj. Vegetat.*, 2d edit., p. 319.1862. Larva, case, pupa, (figs.) *Harris. Ins. Inj. Vegetat.*, Flint's edit., p. 415, pl. 6.1869. Larva, case, pupa. *Harris. Entom. Corres.*, p. 151.1869. Larva, case. *Packard. Guide to Study of Ins.*, p. 292.1880. Larva, case. *Coquillett. Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 156.FOOD PLANT. *Quercus*.Sub-fam. **Notodontidæ.****Ichthyura inclusa.** Hübn.1797. Larva, (col'd fig.) *Abbot—Smith*, (as *Clos. anastomosis*.) *Lep. Ins. Georgia*, p. 143, pl. 72.1841. Larva. *Harris. Ins. Inj. Vegetat.*, 1st edit., p. 314.1852. Larva. *Harris. Ins. Inj. Vegetat.*, 2d edit., p. 333.1858. Larva. *Fitch. 5th Rept. Nox. Ins. N. York*, p. 845.1862. Life history, (col'd figs.) *Harris. Ins. Inj. Vegetat.*, Flint's edit., p. 431.1869. Larva, (fig.) *Harris. Entom. Corres.*, p. 310, pl. 3.1881. Larva, pupa. *Packard*, (quotes *Harris*.) *Ins. Inj. Forest Trees*, p. 122.1883. Young larva. *Hy. Edwards. Papilio*, vol. 3, p. 24.FOOD PLANT. *Populus*.**Ichthyura ornata.** S. and R.1885. Life history. *French. Canad. Entom.*, vol. 17, p. 248.FOOD PLANT. *Salix*.**Ichthyura palla.** French.1882. Larva. *French. Canad. Entom.*, vol. 14, p. 34.1885. Life history. *French. Canad. Entom.*, vol. 17, p. 41.FOOD PLANT. *Salix*.**Ichthyura albosigma.** Fitch.1855. Egg, larva, cocoon. *Fitch. 2d Rept. Ins. N. York*, p. 274.1858. Larva. *Fitch. 5th Rept. Ins. N. York*, p. 844.1881. Larva. *Packard. Ins. Inj. Forest Trees*, p. 122.FOOD PLANT. *Populus*.**Apatelodes torrefacta.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith. Lep. Ins. Georgia*, p. 151, pl. 76.1864. Larva, (brief.) *Packard. Proc. Entom. Soc. Philad.*, vol. 3, p. 353.1869. Larva. *Harris. Entom. Corres.*, p. 307.FOOD PLANTS. *Rubus*, etc.**Apatelodes angelica.** Grote.1872. Larva. *Lintner. 26th Rept. N. York State Cab. N. Hist.*, p. 130.FOOD PLANTS. *Fraginus*, *Syringa*.**Datana ministra.** Drury.1797. Larva, (col'd fig.) *Abbot—Smith. Lep. Ins. Georgia*, p. 161, pl. 81.1841. Larva. *Harris. Ins. Inj. Vegetat.*, 1st edit., p. 312.1852. Larva. *Harris. Ins. Inj. Vegetat.*, 2d edit., p. 332.1855. Larva, pupa, (figs.) *Fitch. 2d Rept. Ins. N. York*, p. 237.1856. Larva. *Fitch. 3d Rept. Ins. N. York*, p. 337.

1862. Larva, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 429.  
 1866. Larva. *Grote—Robinson*, (quote Angus in lit.) Proc. Entom. Soc. Philad., vol. 6, p. 11.  
 1866. Larva. *B. D. Walsh*. Practical Entom., vol. 2, p. 7.  
 1869. Larva, (fig.) *Harris*. Entom. Corres., p. 308, pl. 2.  
 1873. Life history, (figs.) *Le Baron*. 4th Illinois Rept., p. 186.  
 1877. Larva, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 189.  
 1880. Egg, larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 119.  
 1880. Egg, larva, (fig.) *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 167.  
 1883. Larva, (fig.) *Saunders*. Ins. Inj. Fruits, p. 61.  
 1888. Life history. *W. Beutenmüller*. Canad. Entom., vol. 20, p. 16.  
 FOOD PLANTS. *Carya*, *Juglans*.

***Datana angusii*. G. and R.**

1866. Larva. *Grote—Robinson*, (quote Angus in lit.) Proc. Entom. Soc. Philad., vol. 6, p. 10.  
 1888. Larva. *W. Beutenmüller*. Canad. Entom., vol. 20, p. 135.  
 FOOD PLANTS. *Juglans*, *Carya*.

***Datana major*. G. and R.**

1878. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 272.  
 1889. Larva. *H. G. Dyar*. Canad. Entom., vol. 21, p. 34.  
 FOOD PLANT. *Andromeda ligustrina*.

***Datana integerrima*. G. and R.**

1866. Larva. *Grote—Robinson*, (quote Angus in lit.) Proc. Entom. Soc. Philad., vol. 6, p. 13.  
 1888. Larval stages. *W. Beutenmüller*. Canad. Entom., vol. 20, p. 134.  
 FOOD PLANTS. *Juglans*, *Carya*, *Quercus*, etc.

***Datana floridana*. Graef.**

1881. Larva. *A. Koebele*. Bull. Brooklyn Entom. Soc., vol. 4, p. 21.

***Datana drexelii*. Hy. Edwards.**

1884. Larva. *Hy. Edwards*. Papilio, vol. 4, p. 25.  
 1886. Life history. *W. Beutenmüller*. Canad. Entom., vol. 20, p. 57.  
 FOOD PLANTS. *Vaccinium corymbosum*, *Hamamelis*.

***Datana contracta*. Walker.**

1866. Larva. *Grote—Robinson*, (quote Angus in lit.) Proc. Entom. Soc. Philad., vol. 6, p. 14.  
 1888. Larval stages. *W. Beutenmüller*. Canad. Entom., vol. 20, p. 131.  
 FOOD PLANTS. *Quercus*, *Castanea*, *Carya*.

***Datana perspicua*. G. and R.**

1887. Egg, larval stages. *Hy. Edwards*. Entom. Amer., vol. 3, p. 170.  
 FOOD PLANT. *Rhus typhina*.

***Nadata gibbosa*. Abb.—Sm.**

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 163, pl. 82.  
 1869. Larva. *Harris*. Entom. Corres., p. 308.  
 1872. Larva, (fig.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 150.  
 1874. Larva, (fig.) *Packard*, (quotes Lintner.) Amer. Naturalist, vol. 8, p. 691.  
 FOOD PLANT. *Quercus*.

***Hyparpax aurora*. Abb.—Sm.**

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 173, pl. 87.  
 1888. Larval stages. *Hy. Edwards*. Entom. Amer., vol. 3, p. 169.  
 FOOD PLANT. *Quercus*.

***Gluphisia trilineata*. Packard.**

1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 129.  
 FOOD PLANT. *Salix*.

**Notodonta stragula.** Grote.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 129.FOOD PLANT. *Salix*.**Lophodonta angulosa.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 165, pl. 83.FOOD PLANT. *Quercus*.**Pheosia rimosa.** Park.1882. Larva, pupa. *C. F. Goodhue*. *Canad. Entom.*, vol. 14, p. 73.FOOD PLANTS. *Salix*, *Populus*.**Pheosia californica.** Stretch.1873. Larva, (col'd fig.) *Stretch*. *Zygaen. Bombyc. N. Amer.*, p. 117, pl. 10.**Edema albifrons.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 159, pl. 80.1854. Larva, pupa, (figs.) *Emmons*. *Nat. Hist. N. York*, vol. 5, p. 242, pl. 37.1869. Larva. *Harris*. *Entom. Corres.*, p. 304.1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 191.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 120.FOOD PLANT. *Quercus*.**Seiroidonta bilineata.** Packard.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 201, pl. 1.1869. Larva, (fig.) *Harris*, (as *Gluph. ulmi*.) *Loc. cit.*, p. 302, pl. 11.1886. Larva. *French*. *Canad. Entom.*, vol. 18, p. 49.FOOD PLANT. *Ulmus*.**Oedemasia concinna.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 169, pl. 85.1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 309.1852. Egg, larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 328.1856. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 342.1862. Egg, larva, (figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 426.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 303, pl. 1.1877. Larva. *French*, (quotes *Harris*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 190.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 120.1881. Life history. *Saunders*. *Canad. Entom.*, vol. 13, p. 138.1882. Larva, pupa, (figs.) *Saunders*. 12th Rept. *Entom. Soc. Ontario*, p. 21.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 130.1883. Larva, pupa, (figs.) *T. J. Edge*. Rept. *Agr. Pennsylv.*, p. 70.1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 63.1888. Larva, (fig.) *J. Fletcher*. Rept. *Entom. Dept. Agr. Canad.*, p. 28.FOOD PLANT. *Salix*, *Prunus*, etc.**Oedemasai salicis.** Hy. Edwards.1876. Larva, cocoon, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, October.FOOD PLANT. *Salix*.**Dasylophia anguina.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 167, pl. 84.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 304, pl. 1.1889. Life history. *H. G. Dyar*. *Entom. Amer.*, vol. 5, p. 55.FOOD PLANT. *Robinia*.**Coelodasys unicornis.** Abb.—Sm.1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 171, pl. 83.1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 307.1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 326.1856. Larva. *Fitch*. 3d Rept. *Ins. N. York*, p. 363.1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 424.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 302, pl. 11.1872. Larva. *Lintner*. 26th Rept. *State Cab. N. Hist.*, p. 131.1874. Larva, (fig.) *Packard*, (quotes *Lintner*.) *Amer. Naturalist*, vol. 8, p. 691.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 191.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 120.  
 1880. Larva. *Coquillett*, (quotes *Lintner*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 147.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 181.  
 1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 80.  
 FOOD PLANTS. *Prunus*, *Pyrus*, etc.

**Coelodasys mustelina.** Pack.

1886. Larva. *French*. Canad. Entom., vol. 18, p. 92.  
 FOOD PLANT. *Rosa*.

**Coelodasys biguttata.** Pack.

1870. Larva, pupa, (figs.) *Packard*. Amer. Naturalist, vol. 4, p. 229.  
 FOOD PLANT. *Ipomoea coccinea*.

**Janassa lignicolor.** Walker.

1889. Life history. *H. G. Dyar*. Entom. Amer., vol. 5, p. 91.

**Heterocampa astarte.** Doubl.

1869. Larva. *Harris*, (quotes *Doubleday* in lit., 1839.) Entom. Corres., p. 132.

**Heterocampa unicolor.** Pack.

1887. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 168.  
 FOOD PLANT. *Acer pseudo-platanus*.

**Heterocampa pulverea.** G. and R.

1880. Larva. *French*. Canad. Entom., vol. 12, p. 83.  
 1880. Larva. *French*. 6th Ann. Rept. S. Ill. Normal Univ., p. 44.  
 1881. Larva. *Packard*, (quotes *French*.) Ins. Inj. Forest Trees, p. 46.  
 FOOD PLANT. *Quercus*.

**Heterocampa marthesia.** Cram.

1884. Larva. *Packard*, (as *H. tessela*.) Amer. Naturalist, vol. 18, p. 1045.  
 FOOD PLANT. *Quercus*.

**Cerura occidentalis.** Lintn.

1881. Larva. *French*. Canad. Entom., vol. 13, p. 144.  
 FOOD PLANT. *Cerasus*.

**Cerura cinerea.** Walk.

1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 130.  
 FOOD PLANT. *Salix*.

**Cerura borealis.** Boisd.

1797. Larva, (col'd figs.) *Abbot—Smith*, (as *C. furecula*.) Lep. Ins. Georgia, p. 141, pl. 71.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 305.  
 1872. Larva, (fig.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 151.  
 1874. Larva, (fig.) *Packard*, (quotes *Lintner*.) Amer. Naturalist, vol. 8, p. 692.  
 1881. Larva. *French*. Canad. Entom., vol. 13, p. 145.  
 FOOD PLANT. *Salix*.

Sub-fam. **Saturniidae.****Dryopteris rosea.** Walk.

1887. Larva. *Grote*. Canad. Entom., vol. 19, p. 50.  
 FOOD PLANT. *Viburnum acerifolium*.

**Drepanodes arcuata.**

1889. Larva. *W. Beutenmüller*. Entom. Amer., vol. 5, p. 38.

**Sericaria mori.** L. (Silk-worm, domesticated.)

1836. Life history, (figs.) Treatise Silk Manufact., (Lardner's Cyclop.)  
 1840. Larva, pupa, (fig.) *Westwood*. Intro. Mod. Class. In., vol. 2, p. 378, fig. 105.  
 1857. Life history, (figs.) *Chenu—Demarets*. Encyc. Hist. Nat. Papillons, vol. 2, pp. 7-16.  
 1863. Larva, cocoon. *W. F. Kirby*. Europ. Butt. and Moths, p. 133.  
 1864. Life history. *Jaeger*. Life N. Amer. Ins., p. 145.

1872. Life history, (figs.) *Figuer*. Insect World, p. 216.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 75.  
 1880. Larva, cocoon, (figs.) *Riley*. Amer. Entom., vol. 1, 2d ser., p. 112.  
 1880. Larva, cocoon, (figs.) *W. C. Wyckoff*, (after *Riley*.) Loc. cit., pp. 112, 113.  
 1885. Egg, larva, (figs.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, pp. 434, 460.  
 1886. Life history, (figs.) *Riley*. Dept. Agr. Bull. No. 9.  
 FOOD PLANTS. *Osage Orange*, *Rubus*, etc., (*Morris*.)

**Actias luna.** L.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 95, pl. 48.  
 1837. Larva. *Westwood*, (quotes *Abb.-Sm.*) in *Drury Ill. Exot. Entom.*, vol. 1, p. 45.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 277.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 297.  
 1854. Larva, pupa, (col'd figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 233, pl. 39.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 452.  
 1859. Larva, cocoon. *Clemens*. Jour. Acad. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. N. Amer. Lep., p. 225.  
 1862. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 382.  
 1865. Cocoon, (brief.) *Grote*. Amer. Entom., p. 13.  
 1867. Larva. *Tenney*. Nat. Hist., p. 401.  
 1869. Egg. *Minot*. Canad. Entom., vol. 2, p. 27.  
 1869. Larva, (fig.) *Harris*. Entom. Corres., p. 293, pl. 4.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 123.  
 1872. Egg, larval stages. *Lintner*. 26th Rept. N. York State Cab. N. Hist. p. 126.  
 1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 674.  
 1874. Larva. *Gentry*. Canad. Entom., vol. 6, p. 86.  
 1875. Life history. *R. V. Rogers*. Canad. Entom., pp. 141-199.  
 1875. Egg, larva, cocoon. *R. V. Rogers*. Rept. Entom. Soc. Ontario, p. 43.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 192.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 124.  
 1880. Larva, (fig.) *Coquillett*, (quotes *Lintner*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 178.  
 1881. Larva, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 76.  
 1882. Larva, brief, (fig.) *J. A. Moffat*. Rept. Entom. Soc. Ontario, p. 29.  
 1885. Egg, larva, cocoon. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 458.  
 FOOD PLANTS. *Juglans*, *Liquidambar*, *Betula*, *Fagus*, etc.

**Telea polyphemus.** Cramer.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 93, pl. 47.  
 1840. Larva, (fig.) *P. H. Gosse*. Canad. Naturalist, p. 309.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 278.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 298.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 236.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 455.  
 1859. Larva, cocoon. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 226.  
 1862. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 384.  
 1862. Larva. *Jaeger*. Life N. Amer. Ins., p. 159.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 125.  
 1872. Egg. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 152.  
 1874. Larva. *Gentry*. Canad. Entom., vol. 6, p. 86.  
 1875. Life history, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 41.  
 1879. Larva, cocoon, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 45.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 124.

1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 176.  
 1881. Larva, (fig.) *Packard*. Ins. Inj. Forest Trees, p. 47.  
 1882. Larva, (figs.) *Saunders*. Canad. Entom., vol. 14, p. 41.  
 1882. Larva, cocoon, (figs.) *Saunders*. Rep't. Entom. Soc. Ontario, p. 15.  
 1883. Larva, cocoon, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 171.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 457.  
 FOOD PLANTS. *Juglans*, *Tilia*, *Ulmus*, *Acer*, *Pyrus*, *Rosa*, *Prunus*, etc.

***Attacus cinctus*. Tepper.**

1881. Cocoon. *Miss Murlfeldt*. Canad. Entom., vol. 16, p. 131.

***Attacus yama-mai* (domesticated).**

1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 130.  
 FOOD PLANTS. *Fagus*, *Pyrus*, *Castanea*, *Photinia*, etc.

***Attacus cynthia*. Drury.**

1837. Larva, cocoon, pupa. *Westwood*. Drury's Ill. Exot. Entom., vol. 2, p. 13.  
 1858. Larva, (col'd fig.) *Duncan*. Natural. Library, p. 143.  
 1863. Larva, (fig.) *J. G. Wood*. Ill. Nat. Hist., p. 533.  
 1872. Egg, larva, cocoon. *Figuier*. Insect World, p. 247.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 112.  
 1880. Life history, (figs.) *Riley*. Amer. Entom., vol. 1, 2d series, p. 56.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 125.  
 1885. Egg, larva, (figs.) *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 457.  
 FOOD PLANTS. *Ailanthus*, *Castor-bean*.

***Callosamia promethea*. Drury.**

1797. Larva, (col'd figs.) *Abbot-Smith*. Lep. Ins. Georgia, p. 91, pl. 46.  
 1833. Larva, cocoon, pupa, (figs.) *Peale*. Lep. Americana, pl. 3.  
 1837. Larva, cocoon. *Westwood*, (quotes *Peale*). Drury's Ill. Exot. Entom., vol. 2, p. 21.  
 1838. Larva, cocoon, pupa, (figs.) *Westwood*, (quotes *Peale*). Introd. Entom., p. 402.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 281.  
 1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 300.  
 1854. Egg, larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 238.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 377.  
 1858. Larva, cocoon, pupa, (figs.) *Duncan*. Natural. Library, vol. 22, p. 136.  
 1859. Larva, cocoon. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Egg, larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 391.  
 1862. Larva. *Morris*. Synop. N. Amer. Lep., p. 224.  
 1861. Egg, larva, cocoon. *Jaeger*. Life N. Amer. Ins., p. 162.  
 1867. Larva, cocoon. *Tenney*. Nat. Hist., p. 401.  
 1872. Egg, young larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 126.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 121.  
 1877. Larva. *French*, (quotes *Harris*). Trans. Dept. Agr. Ill., vol. 15, p. 193.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 125.  
 1880. Larva, (fig.) *D. Coquillett*, (quotes *Harris*). Trans. Dept. Agr. Ill., vol. 18, Append., p. 176.  
 1883. Egg, larval stages, cocoon, (figs.) *Saunders*. Canad. Entom., vol. 15, pl. 32, p. 231.  
 1883. Egg, larval stages, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 205.  
 FOOD PLANTS. *Fraxinus*, *Sassafras*, *Liriodendron*, *Liquidambar*, *Acer*, *Prunus*, *Pyrus*, etc.
- Platysamia cecropia*. L.**
1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 89, pl. 45.  
 1837. Larva, cocoon. *Westwood*, (quotes *Abb.-Smith*). Drury's Ill. Exot. Entom., vol. 1, p. 33.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 279.

1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 299.  
 1854. Larva, (col'd fig.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 237, pl. 44.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 338.  
 1858. Larva. *Duncan*. Natural. Library, vol. 22, p. 133.  
 1859. Larva, cocoon. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. N. Amer. Lep., p. 224.  
 1862. Larva, cocoon, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 385.  
 1864. Larva, cocoon, (figs.) *Jaeger*. Life N. Amer. Ins., p. 155.  
 1867. Larva, pupa, (figs.) *Tenney*. Nat. Hist., p. 400.  
 1869. Larva. *Harris*. Entom. Corres., p. 294.  
 1870. Egg. *P. T. Sprague*. Canad. Entom., vol. 2, p. 82.  
 1871. Larva, cocoon. *Saunders*. Canad. Entom., vol. 3, p. 149.  
 1872. Egg, young larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 125.  
 1872. Life history, (figs.) *Riley*. 4th Missouri Rept., p. 103.  
 1874. Life history, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 24.  
 1877. Life history. *Gentry*. Canad. Entom., vol. 9, p. 41.  
 1877. Larva. *French*, (quotes *Harris*.) Trans. Dept. Agr. Ill., vol. 15, p. 193.  
 1879. Larva, cocoon, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 75.  
 1880. Larva, (fig.) *J. Marten*. Trans. Agr. Dept. Ill., vol. 18, Append., p. 126.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Agr. Dept. Ill., vol. 18, Append., p. 177.  
 1881. Larva, (fig.) *Packard*, (after *Riley*.) Ins. Inj. Forest Trees, p. 113.  
 1881. Larva, cocoon. *G. D. Hulst*. Bull. Brooklyn Entom. Soc., vol. 4, p. 57, hybrid between *P. cecropia* and *P. ceanothi*.  
 1883. Egg, larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 75.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 456.  
 FOOD PLANTS. *Pyrus*, *Prunus*, etc.

**Platysamia columbia.** Smith.

1871. Cocoon. *G. J. Bowles*. Canad. Entom., vol. 3, p. 263.  
 1878. Larva, (col'd fig.) *G. J. Bowles*. Canad. Entom., vol. 10, frontispiece.  
 1878. Larva, (fig.) *F. B. Caulfield*. Canad. Entom., vol. 10, p. 41.  
 1878. Life history. *Fernald*. Canad. Entom., vol. 10, p. 43.  
 1879. Larva, cocoon. *Hagen*. Bull. Buffalo Soc. Nat. Hist., p. 201.  
 1880. Larva. *D. Coquillett*, (quotes *Caulfield*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 177.  
 FOOD PLANT. *Larix americana*.

**Platysamia gloveri.** Strecker.

1878. Cocoon, pupa. *E. L. Graef*. Bull. Brooklyn Entom. Soc., vol. 1, p. 75.

**Platysamia ceanothi.** Behr.

1869. Larva, cocoon, pupa. *Boisdural*. Lep. Califor., p. 84.  
 1874. Larva, cocoon, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., September.  
 1876. Larva, cocoon, pupa. *Strecker*, (quotes *Hy. Edwards*.) Lep. Rhopal. et Heteroc., p. 103.  
 1880. Larva. *A. Wailly*. Canad. Entom., vol. 12, p. 227.  
 FOOD PLANT. *Ceanothus thyrsiflorus*.

**Saturnia mendocino.** Behrens.

1878. Egg, larval stages. *Hy. Edwards*. Proc. Cal. Acad. Sc., January.  
 FOOD PLANT. *Arctostaphylos tomentosa*.

**Saturnia galbina.** Clemens.

1888. Egg, young larva; cocoon, pupa. *Hy. Edwards*. Entom. Amer., vol. 4, p. 61.

**Pseudohazis eglanterina.** Bois.

1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 2.  
 1875. Egg, larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.  
 FOOD PLANTS. *Rhamnus*, *Rosa*.

**Hemileuca maia.** Drury.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 99, pl. 50.  
 1837. Larva. *Westwood*, (quotes *Abb.-Smith*). Drury's Ill. Exot. Entom., vol. 2, p. 45.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 285.  
 1852. Larva. *Harris*, (quotes *Abbot*.) Ins. Inj. Vegetat., 2d edit., p. 306.  
 1854. Larva, (col'd figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 232, pl. 39.  
 1858. Larva. *Duncan*. Natural. Library, vol. 22, p. 151.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 221.  
 1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 396.  
 1869. Life history, (figs.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 137.  
 1873. Life history, (figs.) *Riley*. 5th Rept. Missouri, p. 127.  
 1873. Egg, larva, pupa, (figs.) *Packard*, (quotes *Riley*.) Amer. Naturalist, vol. 7, p. 475.  
 1877. Larva, (fig.) *Packard*, (after *Riley*.) Half-hours with Insects, p. 86.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 106.  
 1878. Larva, (brief.) *C. E. Vorthington*. Canad. Entom., vol. 10, p. 16.  
 1880. Larva, pupa, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 127.  
 1880. Larva, pupa, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18. Append., p. 163.  
 1885. Larva. *C. T. Goodhue*. Canad. Entom., vol. 17, p. 243.

FOOD PLANT. *Quercus*.**Hemileuca nevadensis.** Stretch.

1875. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.  
 1888. Larva. *G. D. Hulst*. Entom. Amer., vol. 3, p. 191.

FOOD PLANT. *Salix*.**Hemileuca yavapai.**

1880. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 167.

FOOD PLANT. *Prosopis juliflora*.**Hemileuca californica.** Wright.

1888. Larva, (brief.) *W. G. Wright*. Canad. Entom., vol. 20, p. 34.

FOOD PLANT. *Salix*.**Hyperchiria io.** Fabr.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 97, pl. 49.  
 1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 6.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 284.  
 1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 303.  
 1854. Larva. *Emmons*. Nat. Hist. N. York, vol. 5, p. 232.  
 1855. Larva. *T. Glover*, (quotes *Harris*.) Trans. N. York State Agr. Soc., p. 81.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 379.  
 1858. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 832.  
 1858. Larva. *Duncan*. Natural. Library, vol. 22, p. 157.  
 1859. Larva. *P. H. Gosse*. Letters from Alabama, p. 281.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 220.  
 1862. Larva, cocoon, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 393.  
 1864. Larva, (fig.) *Jaeger*. Life N. Amer. Ins., p. 124.  
 1869. Larva. *Bethune*. Canad. Entom., vol. 2, p. 19.  
 1869. Larva. *Harris*. Entom. Corres., p. 295.  
 1870. Larval stages. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 146.  
 1873. Egg. *Riley*. Canad. Entom., vol. 5, p. 109.  
 1873. Life history, (figs.) *Riley*. 5th Missouri Rept., p. 133.  
 1873. Larva, (fig.) *Packard*, (quotes *Riley*.) Amer. Naturalist, vol. 7, p. 477.  
 1874. Larva, (fig.) *Saunders*. Canad. Entom., vol. 6, p. 227.

1874. Larva, cocoon, (figs.) *E. B. Reed*. Rept. Entom. Soc. Ontario, p. 11.  
 1877. Larva, (fig'd.) *Packard*, (after *Riley*.) Half-hours with Insects, p. 85.  
 1879. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 75.  
 1879. Larva, pupa, (figs.) *Mrs. Bullard*. Insect Lives, p. 87.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 127.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 169.  
 1881. Larva, (fig.) *Packard*, (after *Riley*.) Ins. Inj. Forest Trees, p. 111.  
 1883. Life history, brief, (figs.) *Saunders*. Ins. Inj. Fruits, p. 210.  
 1885. Egg, larva, cocoon. *Fernald*. Kingsley's Stand. Nat. Hist., vol. 2, p. 455.  
 1888. Larva, pupa, (fig.) *A. R. Grote*. 18th Rept. Entom. Soc. Ontario, pp. 73, 74.

FOOD PLANTS. Various trees and shrubs.

**Hyperchiria pamina.** Neum.

1888. Larval stages. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.

**Coloradia pandora.** Blake.

1888. Egg. *Hy. Edwards*. Entom. Amer., vol. 4, p. 61.

**Eacles imperialis.** Drury.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 109, pl. 55.  
 1837. Larva, pupa. *Westwood*, (quotes *Abb.-Sm.*) *Drury's Ill. Exot. Entom.*, vol. 1, p. 17.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 290.  
 1852. Larval stages. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 308.  
 1858. Larva, (col'd fig.) *Duncan*. Natural Library, vol. 22, p. 160.  
 1858. Larva, (brief.) *Fitch*. 4th Rept. Ins. N. York, p. 742.  
 1859. Larva, pupa, (brief.) *P. H. Gosse*, (quotes *Abb.-Sm.*) *Letters from Alabama*, p. 172.  
 1859. Larva, pupa. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Larva, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 404.  
 1862. Larva, pupa. *Morris*. Synop. Lep. N. Amer., p. 230.  
 1870. Egg, larval stages. *Lintner*. 24th Rept. N. York State Cab. N. Hist., p. 150.  
 1874. Larva. *Gentry*. Canad. Entom., vol. 6, p. 87.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 156.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 121.  
 1881. Larva. *Packard*, (quotes *Harris*.) Ins. Inj. Forest Trees, p. 203.  
 FOOD PLANTS. *Carya*, *Juglans*, etc.

**Citheronia regalis.** Fabr.

1797. Larva, (col'd fig.) *Abbot-Smith*, (as *Ph. regia*.) Lep. Ins. Georgia, p. 121, pl. 61.  
 1833. Larva, (col'd fig.) *Titian Peale*. Lep. Americana, pl. 5.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 287.  
 1852. Larval stages. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 309.  
 1857. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 456.  
 1858. Larva, (col'd fig.) *Duncan*. Natural Library, vol. 22, p. 162.  
 1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.  
 1862. Egg, larva, pupa. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 400.  
 1862. Larva, pupa. *Morris*. Synop. Lep. N. Amer., p. 230.  
 1869. Larva, pupa. *Harris*. Entom. Corres., p. 297.  
 1874. Larva, (fig.) *J. G. Wood*. Insects abroad, p. 682.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 156.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 122.  
 1880. Larva. *D. Coquillett*, (quotes *Harris*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 162.  
 1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 76.  
 1884. Larva, pupa, (brief.) *J. Hamilton*. Canad. Entom., vol. 16, p. 47.  
 FOOD PLANTS. Various trees and shrubs.

**Citheronia sepulcralis.** G. and R.1865. Larva. *Grote and Robinson*. Proc. Entom. Soc. Philad., vol. 4, p. 496.1881. Larva. *Packard*, (quotes G. and R.) Ins. Inj. Forest Trees, p. 203.1887. Larva. *Hy. Edwards*. Entom. Amer., vol. 3, p. 168.FOOD PLANT. *Pinus*.**Citheronia mexicana.** G. and R.1888. Pupa. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.**Sphingicampa bicolor.** Harris.

1863. Larva, pupa. Proc. Boston Soc. N. Hist., vol. 9, p. 292.

1864. Larva. *B. D. Walsh*. Proc. Entom. Soc. Philad., vol. 3, p. 425.FOOD PLANT. *Gleditschia*.**Sphingicampa quadrilineata.** G. and R.1888. Pupa. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.**Anisota stigma.** Fabr.1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 111, pl. 56.1841. Larva, pupa. *Harris*, (quotes Abb.-Sm.) Ins. Inj. Vegetat., 1st edit., p. 292.1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.1859. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 824.1862. Larva, (brief.) *Morris*. Synop. Lep. N. Amer., p. 231.1869. Larva, (fig.) *Harris*. Entom. Corres., p. 298, pl. 11.1873. Larva. *Riley*. 5th Missouri Rept., p. 126.1878. Larva. *W. F. Andrews*. Psyche, vol. 2, p. 272.1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 120.1887. Larva. *A. R. Grote*. Canad. Entom., vol. 19, p. 51.FOOD PLANTS. Various species of *Quercus*.**Anisota senatoria.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 113, pl. 57.1837. Larva. *Westwood*, (quotes Abb.-Sm.) Drury's Ill. Exot. Entom., vol. 2, p. 25.1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 292.1852. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 311.1859. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 823.1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 231.1862. Larva, pupa, (fig.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 406.1866. Larva. *B. D. Walsh*. Pract. Entom., vol. 2, p. 7.1869. Larva, pupa, (fig.) *Harris*. Entom. Corres., pl. 11.1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 82.1870. Egg, larval stages: *Lintner*. 24th Rept. N. Y. State Cab. Nat. Hist., p. 155.1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 196.1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 120.1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 161.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 45.FOOD PLANTS. Various species of *Quercus*.**Anisota virginiana.** Drury; = **pellucida.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 115, pl. 58.1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 293.1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 313.1854. Larva, pupa, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, pl. 36.1859. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 824.1859. Larva. *Clemens*. Jour. Acad. N. Sc. Philad., July.1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 407.1862. Larva. *Morris*. Synop. Lep. N. Amer., p. 237.1869. Larva. *Harris*. Entom. Corres., p. 298.1880. Larva. *French*. 6th Rept. Ill. Norm. Univers., p. 45.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 121.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 45.

1887. Larva. *A. R. Grote*. Canad. Entom., vol. 19, p. 52.

FOOD PLANTS. Various species of *Quercus*.

***Dryocampa rubicunda*. Fabr.**

1864. Larva. *B. D. Walsh*, description by *Lintner*. Proc. Entom. Soc. Philad., vol. 3, p. 426.

1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 75.

1870. Larva, (fig.) *T. Glover*. Rept. U. S. Dept. Agr., p. 83.

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 133.

1873. Life history, (figs.) *Riley*. 5th Missouri Rept., p. 137.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 196.

1879. Larva, pupa, (figs.) *Mrs. Ballard*. Insect Lives, p. 83.

1880. Larva, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 121.

1881. Larva, pupa, (figs.) *Packard*, (quotes *Riley*.) Ins. Inj. Forest Trees, p. 109.

1887. Larva. *A. R. Grote*. Canad. Entom., vol. 19, p. 52.

FOOD PLANTS. *Acer*, etc.

***Clisiocampa californica*. Park.**

1869. Larva, (brief.) *Boisduval*, (as *B. pseudoneustria*.) Lep. Califor., p. 82.

1877. Larva, cocoon. *Packard*, (quotes *Hy. Edwards* in lit.) Ins. Inj. West, Hayden's Rept., p. 807.\*

1881. Larva, cocoon. *Stretch*. Papilio, vol. 1, p. 64.

1881. Larva. *Packard*, (quotes *Stretch*.) Ins. Inj. Forest Trees, p. 41.

1881. Larva, cocoon. *Packard*, (quotes *Hy. Edwards* in lit.) Ins. Inj. Forest Trees, p. 43.\*

FOOD PLANTS. *Quercus agrifolia*, *Rubus*, etc.

\* NOTE.—This description was given by me to Dr. Packard in error as *Gastropacha californica*.—H. E.

***Clisiocampa americana*. Harris.**

1796. Life history, (brief.) *Peck*. Proc. Mass. Agr. Soc.

1797. Larva, (col'd fig.) *Abbot-Smith*, (as *B. castrensis*.) Lep. Ins. Georgia, p. 119, pl. 60.

1826. Larva. *Harris*. N. Engl'd Farmer, vol. 4, p. 354.

1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 268.

1843. Larva. *W. Gaylord*. Trans. N. York State Agr. Soc. (prize essay), p. 152.

1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 286.

1854. Egg, larva, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 235.

1856. Egg, larva, pupa, (figs.) *Fitch*. 2d Rept. Ins. N. York, p. 185.

1862. Egg, larva, cocoon, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 371.

1862. Larva, (brief.) *Packard*. Rept. Maine Board Agr., p. 170.

1864. Larva. *Jacger*. Life N. Amer. Insects, p. 171.

1867. Larva, cocoon, (fig.) *Tenney*. Nat. Hist., p. 404, pl. 299.

1869. Larva. *Boisduval*, (as *B. frutetorum*.) Lep. Califor., p. 82.

1870. Egg, larva. *T. Glover*. Rept. U. S. Dept. Agr., p. 83.

1871. Egg, larva, cocoon, (figs.) *Riley*. 3d Missouri Rept., p. 118.

1872. Egg, larva, cocoon, (figs.) *Saunders*. Canad. Entom., vol. 4, p. 134.

1873. Egg, (fig.) *Riley*. 5th Missouri Rept., p. 56.

1873. Egg, larva, cocoon, (figs.) *A. J. Cook*. 12th Agr. Rept. Michigan, p. 131.

1875. Egg, larva, cocoon, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 30.

1876. Egg, larva, cocoon, (figs.) *G. H. Perkins*. Rept. Vermont Board. Agr., p. 586.

1877. Egg, larva, pupa, (figs.) *Packard*. Ins. Inj. West, Hayden's Rept., p. 793.

1877. Egg, larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 197.

1877. Egg, larva, cocoon, (fig.) *B. Gott*. Rept. Entom. Soc. Ontario, p. 41.

1877. Larva. *Packard*. Half-hours with Insects, p. 172.

1873. Egg. *Saunders*. Canad. Entom., vol. 10, p. 21.

1879. Egg, larva, cocoon, (figs.) *H. Cutting*. N. Hamp. Board Agr., p. 17.  
 1880. Egg, larva, cocoon, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 122.  
 1880. Egg, larva, cocoon, (figs.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 155.  
 1883. Egg, larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 48.  
 1887. Egg, larva, pupa, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Can., p. 24.  
 1888. Egg, larva, cocoon, (figs.) *J. Fletcher*. Rept. Bot. Entom. Dept. Agr. Canada, p. 24.  
 1889. Egg, larva, cocoon, (figs.) *J. Fletcher*. Canad. Entom., vol. 21, p. 74.

FOOD PLANTS. Various trees and shrubs.

***Clisiocampa constricta*. Stretch.**

1874. Larva, cocoon, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., September.  
 1881. Larva, cocoon. *Stretch*. Papilio, vol. p. 65.  
 1881. Larva. *Packard*, (quotes *Hy. Edwards*.) Ins. Inj. Forest Trees, p. 41.  
 FOOD PLANT. *Quercus sonomensis*.

***Clisiocampa erosa*. Stretch.**

1881. Cocoon. *Stretch*, (quotes *Hy. Edwards* in lit.) Papilio, vol. 1, p. 67.

***Clisiocampa distria*. Hübn.—*Sylvatica*. Harris.**

1797. Larva, (col'd fig.) *Abbot-Smith*, (as *G. neustria*.) Lep. Ins. Georgia, p. 117, pl. 59.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 271.  
 1844. Larva. *Harris*. N. Eng'd Farmer, vol. 22, p. 412.  
 1852. Larva, cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 291.  
 1854. Larva, cocoon, (figs.) *Emmons*, (as *B. neustria*.) Nat. Hist. N. York, vol. 5, p. 240.  
 1856. Larva. *Fitch*. 2d Rept. Ins. N. York, p. 198.  
 1858. Larval stages. *Fitch*. 5th Rept. Ins. N. York, p. 820.  
 1862. Larva, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 375.  
 1862. Larva. *Morris*, (quotes *Harris*.) Synop. N. Amer. Lep., p. 236.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 173.  
 1869. Larva. *Harris*. Entom. Corres., p. 292.  
 1871. Egg, larva, (fig'd.) *Riley*. 3d Missouri Rept., p. 121.  
 1874. Larva, (fig.) *J. G. Wood*. Insects Abroad, p. 680.  
 1875. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 30.  
 1877. Larva. *P. Gott*. Rept. Entom. Soc. Ontario, p. 41.  
 1877. Egg, larva, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 794.  
 1878. Egg, larva, (figs.) *G. H. Perkins*. Rept. Vermont Board Agr., p. 258.  
 1878. Egg, larva, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 28.  
 1879. Egg, larva, (figs.) *H. Cutting*. N. Hamp. Board Agr., p. 20.  
 1878. Egg. *Saunders*. Canad. Entom., vol. 10, p. 21.  
 1880. Larva, (fig.) *J. Marten*, (quotes *Fitch*.) Trans. Dept. Agr. Ill., vol. 18, Appendix, p. 124.  
 1880. Larva. *French*. 6th Rept. Ill. Norm. Univ., p. 44.  
 1881. Egg, larva, (figs.) *Packard*, (quotes *Fitch*.) Ins. Inj. Forest Trees, p. 40.  
 1883. Egg, larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 53.  
 1887. Egg, larva, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Can., p. 24.  
 1888. Egg, larva, cocoon. *J. Fletcher*. Rept. Bot. Ent. Dept. Agr. Canada, p. 24.  
 FOOD PLANTS. *Pyrus*, *Prunus*, *Quercus*, etc.

***Clisiocampa fragilis*. Stretch.**

1888. Cocoon. *Hy. Edwards*. Entom. Amer., vol. 4, p. 62.

***Gastropacha americana*. Harris.**

1797. Larva, (col'd fig.) *Abbot-Smith*, (as *B. ilicifolia*.) Lep. Ins. Georgia, p. 101, pl. 51.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 273.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 293.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, pp. 337, 380.  
 1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 377.  
 1869. Larva. *Harris*. Entom. Corres., p. 292.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 154.  
 1874. Egg. *H. H. Lyman*. Canad. Entom., vol. 6, p. 158.  
 1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 166.  
 1863. Egg, larva, cocoon. *Saunders*. Ins. Inj. Fruits, p. 87.  
 FOOD PLANTS. *Pyrus*, *Fraxinus*, *Quercus*.

**Tolyte velleda.** Stoll.

1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 103, pl. 52.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 274.  
 1848. Larva. *Miss Dix*. Silliman's Jour. of Sc. and Art, vol. 19, p. 62.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 293.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 338.  
 1862. Young larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 379.  
 1869. Larva. *Harris*. Entom. Corres., p. 293.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 134.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 197.  
 1880. Larva. *D. Coquillett*, (quotes *Lintner*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 166.  
 1883. Larva. *Edwards-Elliot*. Papilio, vol. 3, p. 130.  
 1883. Egg. *Hy. Edwards*. Papilio, vol. 3, p. 189.  
 1883. Larva, cocoon, (figs.) *Saunders*. Ins. Inj. Fruits, p. 89.  
 FOOD PLANTS. *Populus*, *Prunus*, etc.

**Tolyte laricis.** Fitch.

1856. Life history. *Fitch*. 2d. Rept. Ins. N. York, p. 264.  
 1881. Larva, cocoon. *Packard*, (quotes *Fitch*.) Ins. Inj. Forest Trees, p. 254.  
 1883. Cocoon, (brief.) *H. R. Gilbert*. Papilio, vol. 3, p. 25.  
 1883. Larva. *Edwards-Elliot*. Papilio, vol. 3, p. 131.  
 FOOD PLANT. *Larix americana*.

Sub-fam. **Cossidæ.****Cossus centerensis.** Lintner.

1879. Life history. *Jas. S. Bailey*. Canad. Entom., vol. 11, p. 1.  
 1880. Larva. *D. Coquillett*, (quotes *Bailey*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 151.  
 1881. Larva, pupa. *Packard*, (quotes *Bailey*.) Ins. Inj. Forest Trees, p. 120.  
 1883. Pupa, (brief.) *J. Fletcher*. Canad. Entom., vol. 15, p. 203.  
 1883. Life history, (col'd figs.) *Jas. S. Bailey*. Bull. U. S. Dept. Agr., No. 3, p. 50.  
 1885. Pupa, (figs.) *Lintner*. 2d Rept. State Entom. N. York, p. 216.  
 FOOD PLANT. *Populus tremuloides*.

**Cossus alni.** Kellicott. (New sp.?)

1885. Larva. *D. Kellicott*. Entom. Amer., vol. 1, p. 175.

**Prionoxystus robiniae.** Peck.

1821. Life history, (brief,) (figs.) *Peck*. Mass. Agr. Repos. and Jour., vol. 5, p. 67.  
 1841. Larva, pupa. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 296.  
 1852. Life history. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 316.  
 1858. Life history. *Fitch*. 5th Rept. Ins. N. York, p. 761.  
 1862. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 411.  
 1877. Larva. *Packard*. Half-hours with Insects, p. 239.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 198.  
 1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 152.  
 1881. Egg larva, pupa. *Packard*. Ins. Inj. Forest Trees, p. 7.  
 1881. Larva, pupa, (brief.) *D. Kellicott*. Bull. Buffalo Soc. N. Hist., vol. 4, p. 30.

FEEDS in trunks of *Quercus*, *Robinia*, *Populus*, *Salix*, etc.

**Zeuzera æsculi.** Linn.

1829. Larva, pupa. *Stephens*. *Illust. Brit. Entom.*, Hawkes, vol. 2, p. 8.  
 1829. Larva, (fig.) *A. Matthews*. *Mag. Nat. Hist.*, vol. 2, p. 66.  
 1829. Larva, (fig.) *D. G. Kerridge*. *Mag. Nat. Hist.*, vol. 2, p. 292.  
 1837. Larva, pupa. *Kollar*. *Ins. Inj. Vegetat.*, London's edit., p. 208.  
 1839. Larva, (col'd fig.) *Curtis*. *Brit. Entom.*, vol. 16, pl. 722.  
 1840. Larva, pupa, (col'd figs.) *Ratzeburg*. *Die Forst-Insecten*, vol. 2, p. 88, pl. 3, 4.  
 1840. Larva, (brief.) *Westwood*. *Intr. Mod. Class. Ins.*, vol. 2, p. 378.  
 1857. Larva. *Chenu—Demarets*. *Encyc. Hist. Nat. Papillons*, vol. 2, p. 44.  
 1858. Larva, (col'd fig.) *Duncan*. *Nat. Library*, vol. 30, p. 185, pl. 15.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt. Moths*, vol. 1, p. 113.  
 1859. Larva, (col'd fig.) *Humphreys*. *Genera Brit. Moths*, vol. 1, p. 15, pl. 4.  
 1869. Larva. *Newman*. *British Moths*, p. 18.  
 1872. Larva, (fig.) *J. G. Wood*. *Insects at Home*, p. 428.  
 1879. Egg, larva, pupa, (figs.) *Miss E. A. Ormerod*. *Rept. Inj. Ins.*, p. 23.  
 1882. Larva, (col'd fig.) *W. F. Kirby*. *Europ. Butt. and Moths*, p. 113, pl. 26.  
 FEEDS in trunk and branches of *Quercus*, *Salix*, *Populus*, etc.

**Cossula magnifica.** Bailey.

1882. Life history, (brief.) *J. S. Bailey*. *Papilio*, vol. 2, p. 94.  
 1883. Pupa, (col'd fig.) *J. S. Bailey*. *Bull. Dept. Agr.*, No. 3, pl. 2.  
 FOOD PLANT. *Quercus virens*.

Sub-fam. **Hepialidæ.****Hepialus argenteomaculatus.** Harris.

1840. Egg, (brief.) *P. H. Gosse*. *Canad. Naturalist*, p. 248.  
 1888. Larva, notes on. *D. S. Kellicott*. *Entom. Amer.*, vol. 4, p. 153.  
 1889. Life history. *D. S. Kellicott*. *Insect Life*, vol. 1, p. 250.

**NOCTUÆ.****Bombycia improvisa.** Hy. Edwards.

1873. Pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, November.

**Pseudothyatira cymatophoroides.** Guen., (and var.)

1863. Larva. *A. R. Grote*, (quotes Cutler in lit.) *Proc. Entom. Soc. Philad.*, vol. 2, p. 134.  
 1883. Larva. *R. Thaxter*. *Papilio*, vol. 3, p. 10.

FOOD PLANT. *Quercus*.**Habrosyne scripta.** Gosse.

1883. Egg, larva. *R. Thaxter*. *Papilio*, vol. 3, p. 10.

FOOD PLANT. *Rubus*.**Platycerura furcilla.** Packard.

1872. Larva, (fig.) *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 132.  
 1874. Larva, (fig.) *Packard*, (quotes Lintner.) *Amer. Naturalist*, vol. 8, p. 691.  
 1880. Larva. *D. Coquillett*, (quotes Lintner.) *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 168.

1881. Larva. *Packard*, (quotes Lintner.) *Ins. Inj. Forest Trees*, p. 203.

1883. Larva, cocoon. *R. Thaxter*. *Papilio*, vol. 3, p. 11.

1883. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 453.

FOOD PLANTS. *Pinus*, *Tilia*.**Charadra propinquilinea.** Grote.

1881. Larva. *L. W. Goodell*. *Papilio*, vol. 1, p. 15.

1883. Larva. *R. Thaxter*. *Papilio*, vol. 3, p. 12.

FOOD PLANTS. *Betula*, *Quercus*, *Carya*.**Charadra deridens.** Guen.

1870. Larva. *Saunders*. *Canad. Entom.*, vol. 2, p. 145.

1872. Larva, cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 157.

1874. Larva, (fig.) *Packard*, (quotes Lintner.) *Amer. Naturalist*, vol. 8, p. 692.

1883. Larval stages, cocoon. *R. Thaxter*. *Papilio*, vol. 3, p. 11.

FOOD PLANT. *Quercus*.

**Raphia frater.** Grote.1883. Larva. *R. Thaxter*. *Papilio*, vol. 3, p. 13.**Apatela grisea.** Walker.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 131.FOOD PLANT. *Ulmus*.**Apatela falcata.** Grote.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1., p. 6.FOOD PLANT. *Corylus*.**Apatela occidentalis.** G. and R.1869. Larva. *Harris*. *Entom. Corres.*, p. 311.1872. Larva. *Saunders*. *Canad. Entom.*, vol. 4, p. 49.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 129.1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 83.1883. Egg, larva, pupa, cocoon. *Saunders*. *Ins. Inj. Fruits*, p. 166.FOOD PLANT. *Cerasus*.**Apatela lobeliæ.** Guen.1852. Larva. *Guen*. *Spec. Gener. Noct.*, vol. 1, p. 44.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 6.1886. Larva. *French*. *Canad. Entom.*, vol. 18, p. 118.FOOD PLANT. *Quercus*.**Apatela morula.** G. and R.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 312, pl. 3, (as *A. ulmi*.)1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 137.1883. Life history. *Thaxter*. *Papilio*, vol. 3, p. 14.FOOD PLANT. *Ulmus*.**Apatela vulpina.** Grote.1883. Larva. *Thaxter*. *Papilio*, vol. 3, p. 14.FOOD PLANTS. *Betula*, *Populus*.**Apatela radcliffei.** Harvey.1878. Larva, cocoon, pupa. *Thaxter*. *Psyche*, vol. 2, p. 121.FOOD PLANT. *Prunus serotina*.**Apatela spinigera.** Guen.1878. Larva. *Thaxter*. *Psyche*, vol. 2, p. 121.FOOD PLANTS. *Rubus*, *Betula*.**Apatela betulæ.** Riley.1884. Larva, pupa. *Riley*. *Bull. Brooklyn Entom. Soc.*, vol. 7, p. 2.FOOD PLANT. *Betula nigra*.**Apatela spinea.** Gr.1878. Egg, young larva. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, June.FOOD PLANT. *Lupinus*.**Apatela lepusculina.** Guen.1875. Larva. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, April.FOOD PLANT. *Populus*.**Apatela populi.** Riley.1870. Larva, pupa, (fig.) *Riley*. 2d Missouri Rept., p. 119.1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 201.1880. Larva, (fig.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 130.1881. Larva, pupa, (fig.) *Packard*, (after *Riley*.) *Ins. Inj. Forest Trees*, p. 116.1882. Larva, (fig.) *Saunders*. *Canad. Entom.*, vol. 14, p. 221.1883. Larva, (fig.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 24.FOOD PLANT. *Populus*.

NOTE.—The two species (undoubtedly distinct), *A. lepusculina* and *A. populi*, have been confounded, and some of the descriptions of early stages of the latter have been given under the former name. *A. lepusculina* appears to be confined to the Pacific coast.—H. E.

**Apatela felina.** Grote.1887. Larval stages, pupa. *French*. *Canad. Entom.*, vol. 19, p. 49.FOOD PLANT. *Salix*.**Apatela americana.** Harris.1797. Larva, (col'd fig.) *Abbot-Smith*, (as *A. aceris*.) *Lep. Ins. Georgia*, p. 185, pl. 93.1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 317.1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 337.1852. Larva. *Guen*. *Spec. Gener. Noct.*, vol. 1, p. 48, (as *A. aceniola*.)1862. Larva, pupa, (figs.) *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 436.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 311, pl. 111.1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., pp. 135, 157.1875. Larva, (brief.) *Grote*. *Bull. Buffalo Soc. N. Sc.*, vol. 2, p. 154.1877. Larva. *French*, (quotes *Harris*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 200.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 130.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 6.1881. Larva. *Packard*. *Ins. Inj. Forest Trees*, p. 111.FOOD PLANT. *Acer*.**Apatela hastulifera.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 183, pl. 92.1852. Larva. *Guen*. *Spec. Gener. Noct.*, vol. 1, p. 47.1872. Larva, cocoon. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 158.FOOD PLANTS. *Esculus*, *Acer*.**Apatela rubricoma.** Guen.1852. Larva. *Guen*. *Spec. Gener. Noct.*, vol. 1, p. 48.1880. Larva. *French*. 6th Rept. Ill. State Norm. Univer., p. 45.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 132.FOOD PLANT. *Celtis crassifolia*.**Apatela luteicoma.** G. and R.1883. Larva. *Thaxter*. *Papilio*, vol. 3, p. 16.FOOD PLANTS. *Tilia*, *Acer*, *Fraxinus*.**Apatela clarescens.** Guen.1869. Larva, (fig.) *Harris*. *Entom. Corres.*, p. 313, pl. 4, (as *A. pruni*.)FOOD PLANT. *Prunus*.**Apatela brumosa.** Guen.1852. Larva, (col'd fig.) *Guen*, (after *Abbot*, MS.) *Spec. Gener. Noct.*, vol. 1, p. 52, pl. 2.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 56.1883. Larva, pupa. *Saunders*. *Ins. Inj. Fruit*, p. 313.1883. Larva. *Saunders*. *Rept. Entom. Soc. Ontario*, p. 12.FOOD PLANTS. *Corylus*, *Prunus*.**Apatela noctivaga.** Grote.1883. Life history. *Thaxter*. *Papilio*, vol. 3, p. 15.FOOD PLANT. *Populus*.**Apatela superans.** Guen.1871. Larva. *LeBaron*. 2d Illinois Rept., p. 51.1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 131.1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 6.1883. Egg, larva, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 166.FOOD PLANT. *Prunus*.**Apatela afflicta.** Grote.1883. Larva. *Thaxter*. *Papilio*, vol. 3, p. 17.FOOD PLANT. *Quercus*.**Apatela hamamelis.** Guen.1852. Larva, (col'd fig.) *Guen*, (after *Abb.*, MS.) *Spec. Gener. Noct.*, vol. 1, p. 52, pl. 2.

1877. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 9, p. 61.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 131.  
 FOOD PLANT. *Castanea*.

**Apatela lithospila.** Grote.

1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 132.  
 FOOD PLANT. *Carya alba*.

**Apatela oblinita.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. *Lep. Ins. Georgia*, p. 187, pl. 94.  
 1852. Larva. *Guen*. *Spec. Gener. Noct.*, vol. 1, p. 49.  
 1869. Larva, (fig.) *Packard*. *Guide to Study of Ins.*, p. 304.  
 1871. Larva, pupa, (fig.) *Riley*. *3d Missouri Rept.*, p. 70.  
 1871. Larva, (fig.) *Saunders*. *Canad. Entom.*, vol. 3, p. 226.  
 1872. Larva. *Lintner*. *26th Rept. N. York State Cab. N. Hist.*, p. 159.  
 1877. Larva. *French*, (quotes *Riley*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 201.  
 1878. Larva, pupa, (figs.) *G. H. Perkins*, (after *Riley*.) *5th Rept. Vermont Board Agr.*, p. 275.  
 1878. Larva. *L. W. Goodell*. *Canad. Entom.*, vol. 10, p. 66.  
 1880. Larva, cocoon, (figs.) *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 131.  
 1880. Larva, cocoon, (fig.) *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 170.  
 1883. Larva, cocoon, pupa, (figs.) *S. A. Forbes*. *Trans. Wisconsin Agr. Soc.*, vol. 21, p. 7.  
 1883. Larva, cocoon, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 325.  
 1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 452.  
 FOOD PLANTS. *Polygonum*, *Peach*, *Asparagus*, etc.

**Arsiloeche albovenosa.** Grote. = *henrici*. Gr.

1877. Larva. *Thaxter*. *Psyche*, vol. 1, p. 188.  
 1880. Larva. *D. Coquillett*. *Canad. Entom.*, vol. 12, p. 45.  
 1880. Larva. *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 171.  
 1888. Larval stages. *H. J. Edwards*. *Entom. Amer.*, vol. 3, p. 171.  
 FOOD PLANTS. *Polygonum*, etc.

**Harrissimemna trisignata.** Walk.

1869. Larva, pupa, (fig.) *Harris*. *Entom. Corres.*, pp. 114, 174.  
 1869. Larva, (fig.) *Packard*. *Guide to Study of Ins.*, p. 304.  
 1886. Larva. *C. F. Goodhue*. *Canad. Entom.*, vol. 18, p. 58.  
 FOOD PLANT. *Syringa*.

**Agrotis c. nigrum.** Linn.

1829. Larva, pupa. *Stephens*. *Illus. Brit. Entom.*, *Haust.*, vol. 2, p. 136.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt., Moths*, vol. 1, p. 234.  
 1877. Larva. *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 89.  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 202.  
 1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 132.  
 1880. Larva. *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 184.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 192.  
 1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 133.

**Agrotis baja.** S. V.

1829. Larva. *Stephens*. *Illus. Brit. Entom.*, *Haust.*, vol. 2, p. 134.  
 1859. Larva. *H. T. Stainton*. *Brit. Butt., Moths*, vol. 1, p. 237.  
 1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 191.

**Agrotis fennica.** Tausch.

1884. Larva. *J. Fletcher*. *Canad. Entom.*, vol. 16, p. 204.

**Agrotis subgothica.** Haw.

1869. Larva, (fig.) *Riley*. *1st Missouri Rept.*, p. 81.  
 1877. Larva. *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 89.  
 1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 204.

1877. Larva, (fig.) *Packard*. Half-hours with Insects, p. 22.  
 1879. Larva. *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 41.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 132.  
 1881. Larva. *F. W. Chase*. Trans. Wisconsin Agr. Soc., vol. 19, p. 482.  
 1883. Larva, (brief.) *Saunders*. Ins. Inj. Fruits, p. 328.
- Agrotis tricos*a.** *Lintner*.  
 1869. Larva. *Riley*. 1st Missouri Rept., p. 82.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 132.
- Agrotis herilis*.** *Grote*.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 90.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 205.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 133.
- Agrotis plecta*.** *Linn*.  
 1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 2, p. 137.  
 1859. Larva. *H. T. Stainton*. Brit. Butt., Moths, vol. 1, p. 234.  
 1882. Larva, (col'd fig.) *W. F. Kirby*. Europ. Butt. and Moths, p. 194, pl. 36.
- Agrotis cupida*.** *Grote*.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 15, Append., p. 136.
- Agrotis clandestina*.** *Harris*.  
 1841. Larva. *Harris*, (quotes Melsheimer in lit.) Ins. Inj. Vegetat., 1st edit., p. 325.  
 1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 79.  
 1871. Larva. *Saunders*. Canad. Entom., vol. 3, p. 35.  
 1876. *G. H. Perkins*. 2d Rept. Vermont Board Agr., p. 597.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 95.  
 1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 213.  
 1877. Larva. *Packard*. Inj. Ins. West, Hayden's Rept., p. 717.  
 1877. Larva, (fig.) *Packard*. Half-hours with Insects, p. 23.  
 1879. Larva, (fig.) *G. J. Bowles*, (quotes *Riley*.) Rept. Entom. Soc. Ontario, p. 44.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 135.  
 1883. Larva, (brief), (fig.) *Saunders*. Ins. Inj. Fruits, p. 108.  
 1884. Larva, (brief), (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 293, pl. 2, fig. 4.  
 1885. Larva, (fig.) *Lintner*. 44th Rept. N. York State Agr. Soc., p. 57.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 4.
- Agrotis messoria*.** *Harris*.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 92.  
 1877. Larva, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 269.  
 1879. Larva, (fig.) *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 42.  
 1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 15, Append., p. 134.  
 1881. Larva, (fig.) *F. W. Chase*. Trans. Wisconsin Agr. Soc., vol. 19, p. 484.  
 1883. Larva, (fig.) *Riley*. Amer. Naturalist, vol. 17, p. 422.  
 1884. Larva, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 290, pl. 2, fig. 6.  
 1886. Life history, (figs.) *Riley*. Rept. Entom. U. S. Dept. Agr.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 13.
- Agrotis scandens*.** *Riley*.  
 1868. Larva, (figs.) *Riley*. 1st Missouri Rept., p. 76.  
 1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 208.  
 1879. Larva. *G. J. Bowles*, (quotes *Riley*.) Rept. Entom. Soc. Ontario, p. 43.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 133.  
 1883. Larva, (fig.) *Riley*. Amer. Naturalist, vol. 17, p. 422.  
 1883. Larva, (fig.) *Saunders*. Ins. Inj. Fruits, p. 108.
- Agrotis pitychrous*.** *Grote*.  
 1889. Larva. *W. Benteinmüller*. Entom. Amer., vol. 5, p. 38.
- Agrotis tessellata*.** *Harris*.  
 1863. Larva. *Fitch*, (as *A. maizii*.) 9th Rept. Ins. N. York, p. 804.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 91.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 206.  
 1879. Larva. *G. J. Bowles*, (quotes Fitch.) Rept. Entom. Soc. Ontario, p. 39.  
 1879. Larva. *W. A. Burkhout*. Agr. Pennsylv., p. 34.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 133.
- Agrotis declarata*.** Walker.  
 1885. Larva. *Saunders*. Canad. Entom., vol. 17, p. 32.
- Agrotis malefida*.** Guen.  
 1884. Life history, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 292, pl. 1, fig. 3.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 14.
- Agrotis cochranii*.** Riley.  
 1869. Life history, (fig.) *Riley*. 1st Missouri Rept., p. 74.  
 1869. Larva. *Packard*. Guide to Study of Ins., p. 308.  
 1873. Larva, pupa, (figs.) *A. J. Cook*. 12th Rept. Michigan State Board Agr., p. 110.  
 1877. Larva, (fig.) *Packard*. Half-hours with Insects, p. 23.  
 1883. Larva, pupa, (brief.) *Saunders*. Ins. Inj. Fruits, p. 107.  
 1888. Larva, (fig.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 57.
- Agrotis annexa*.** Tr.  
 1852. Larva. *Guen*. Spec. Gener. Noct., vol. 1, p. 268.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.  
 1882. Life history. *French*. Canad. Entom., vol. 14, p. 207.  
 1884. Life history, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 291, pl. 2, fig. 1.  
 1885. Larva, pupa, (figs.) *Lintner*. 44th Rept. N. York State Agr. Soc., p. 62.  
 1888. Larva, pupa, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 12.
- Agrotis ypsilon*.** Rott. = *suffusa*. S. V.  
 1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 2, p. 119.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 223.  
 1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 80.  
 1869. Larva, (fig.) *Packard*. Guide to Study of Ins., p. 306.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 93.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 210.  
 1877. Larva, (figs.) *Packard*, (quotes Riley.) Inj. Ins. West, Hayden's Rept., p. 717.  
 1879. Larva. *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 40.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 134.  
 1883. Larva, (fig.) *Saunders*. Ins. Inj. Fruits, p. 327.  
 1884. Egg, larva, (fig.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 294, pl. 2, fig. 2.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 15.  
 1888. Larva, (fig.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 57.
- Agrotis islandica*.** Standgr.  
 1873. Larva. *Packard*. In Hayden's Geol. Surv. Terr., p. 556.
- Agrotis saucia*.** Hübn.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 224.  
 1869. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 72.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 94.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 211.  
 1879. Larva. *G. J. Bowles*, (quotes Riley.) Rept. Entom. Soc. Ontario, p. 41.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 134.  
 1880. Larva, (brief.) *Riley*. Amer. Entomologist, 2d series, vol. 1, p. 298.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 194.  
 1884. Life history, (brief.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 297, pl. 3, figs. 1, 2.

1885. Egg, (fig.) *Lintner*. 44th Rept. N. York State Agr. Soc., p. 59.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 452.  
 1888. Egg, larva, (figs.) *Lintner*. Bull. N. Y. State Museum, No. 6, pp. 8, 16.

***Agrotis lubricans*. Guen.**

1880. Larva. *French*. Canad. Entom., vol. 12, p. 14.  
 1880. Larva. *French*. 6th Rept. Ill. Norm. Univer., p. 45.  
 1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 135.

***Agrotis prasina*. Fabr.**

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 271.

***Agrotis occulta*. Hübner.**

1829. Larva. *Stephens*. Ill. Brit. Entom., Haust., vol. 3, p. 29.  
 1829. Larva, (col'd figs.) *Curtis*. Brit. Entom., vol. 6, pl. 248.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 271.  
 1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, vol. 1, pl. 21.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 207.

NOTE.—The food plants of the species of *Agrotis* are usually grasses and low herbaceous plants. Many of the species are omnivorous.

***Adita chionanthi*. Abb.—Sm.**

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 195, pl. 98.

FOOD PLANT. *Chionanthus virginica*.

***Mamestra adjuncta*. Boisd.**

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 161.  
 1877. Larva, pupa. *L. W. Goodell*. Canad. Entom., vol. 9, p. 61.  
 1880. Larva. *J. Marten*, (quotes Goodell.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.

FOOD PLANT. *Solidago*.

***Mamestra assimilis*. Morrison.**

1881. Larva. *L. W. Goodell*. Papilio, vol. 1, p. 15.

FOOD PLANT. *Solidago*

***Mamestra picta*. Harris.**

1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 329.  
 1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 350.  
 1862. Larva, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 451.  
 1870. Life history, (fig.) *Riley*. 2d Missouri Rept., p. 112.  
 1871. Larva, (fig.) *Bethune*. Rept. Entom. Soc. Ontario, p. 426.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 137.  
 1876. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 14, p. 60.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 226.  
 1877. Larva, (fig.) *Packard*, (after *Riley*.) Inj. Ins. West, Hayden's Rept., p. 753.  
 1878. Larva, (fig.) *J. Stauffer*. Agr. Pennsylv., p. 239.  
 1879. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 17, Append., p. 51.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 185.  
 1883. Life history, (figs.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 124, pl. 1, fig. 3, and pl. 12, fig. 2.  
 1884. Larval stages. *Packard*. Amer. Naturalist, vol. 18.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 452.  
 1888. Larva, (fig.) *Lintner*. Bull. N. Y. State Museum, No. 6, p. 21.

FOOD PLANTS. Various.

***Mamestra grandis*. Boisd.**

1883. Larva. *Thaxter*. Papilio vol. 3, p. 17.

FOOD PLANT. *Arctium lappa*.

***Mamestra subjuncta*. G. and R.**

1869. Larva. *Riley*. 1st Missouri Rept., p. 85.

1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 44.

1879. Larva. *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 44.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.

FOOD PLANTS. *Crucifera*.

**Mamestra distincta.** Hübner.

1880. Larva. *French*. 6th Rept. Ill. Norm. Univ., p. 45.

1880. Larva, pupa. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 136.

FOOD PLANT. *Vitis*.

**Mamestra laudabilis.** Guén.

1852. Larva, pupa. *Guen.*, (quotes *Abbot* in lit.) Spec. Gener. Noct., vol. 2, p. 30.

FOOD PLANTS. *Leguminosae*.

**Mamestra trifolii.** Rott.

1881. Larva. *D. Coquillett*. Papilio, vol. 1, p. 7.

1881. Larva. *French*. Canad. Entom., vol. 13, p. 23.

1882. Larva. *W. F. Kirby*, (as *M. chenopodii*.) Europ. Butt. and Moths, p. 221.

1883. Life history, (figs.) *Riley*, (as *M. chenopodii*.) Rept. Entom. Dept. Agr., p. 124, pl. 1, fig. 5, and pl. 12, fig. 1, (as *M. trifolii*.)

1888. Larva, pupa, (figs.) *Lintner*. Bull. N. York State Museum, No. 6, p. 9.

FOOD PLANTS. *Chenopodiaceae*.

**Mamestra renigera.** Steph.

1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 86.

1877. Larva, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 215.

1879. Larva, (brief.) *G. J. Bowles*. Rept. Entom. Soc. Ontario, p. 45.

1880. Larva, (fig.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.

1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 133.

FOOD PLANT. *Cichorium intybus*.

**Hadena devastatrix.** Brace.

Larva. *Brace*. Silliman's Jour. Sc. and Art, vol. 1, p. 154.

1852. Larva. *Harris*, (quotes *Brace*.) Ins. Inj. Vegetat., 2d edit., p. 345.

1862. Larva. *Harris*, (quotes *Brace*.) Ins. Inj. Vegetat., Flint's edit., p. 445.

1869. Larva, (fig.) *Riley*. 1st Missouri Rept., p. 83.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 96.

1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 216.

1879. Larva, (fig.) *G. J. Bowles*, (quotes *Harris*.) Rept. Entom. Soc. Ontario, p. 38.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.

1833. Larva, (fig.) *Saunders*. Ins. Inj. Fruits, p. 329.

1884. Life history, (brief.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 296, pl. 3, figs. 3, 4.

1885. Larva, (fig.) *Lintner*. 44th Rept. N. York State Agr. Soc., p. 58.

1888. Larva, (fig.) *Lintner*. Bull. N. York State Museum, No. 6, p. 5.

FOOD PLANTS. *Crucifera*, (chiefly).

**Hadena arctica.** Boisd.

1852. Larva. *Harris*, (as *H. amica*.) Ins. Inj. Vegetat., 2d edit., p. 239.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 425.

1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 450.

1865. Larva. *B. D. Walsh*. Prac. Entom., p. 22.

1869. Larva. *Harris*. Entom. Corres., p. 316.

1869. Egg. *Minot*. Canad. Entom., vol. 2, p. 28.

1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 75.

1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 96.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 217.

1879. Larva. *G. J. Bowles*, (quotes *Harris*.) Rept. Entom. Soc. Ontario, p. 39.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.

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**Hadena remissa.** Hübn.1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 233.**Hadena turbulenta.** Hübn.1888. Larva. *W. Reutenmüller.* Canad. Entom., vol. 20, p. 136.FOOD PLANT. *Smilax.***Dipterygia scabriuscula.** Linn.1829. Larva, pupa. *Stephens.* Illus. Brit. Entom., Haust., vol. 2, p. 168.1852. Larva. *Guen.* Spec. Gener. Noct., vol. 1, p. 117.1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 1, p. 201.1859. Larva. *Humphreys.* Gen. Brit. Moths, p. 44.1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 237.FOOD PLANT. *Rumex.***Hyppa xylinoides.** Guen.1869. Life history. *Saunders.* Canad. Entom., vol. 2, p. 33.1888. Larva, (brief.) *Lintner.* 4th Rept. State Entom., p. 138.

FOOD PLANTS. Various.

**Polia vorax.** Behrens.1884. Larva, (brief.) *J. Behrens.* Papilio, vol. 4, p. 21.**Laphygma frugiperda.** Abb.-Sm.1796. Larva, (col'd fig.) *Abbot-Smith.* Lep. Ins. Georgia, p. 191, pl. 96.1852. Larva. *Guen.* (quotes Abbot.) Spec. Gener. Noct., vol. 1, p. 159.1871. Egg, larva, (figs.) *Riley.* 3d Missouri Rept., p. 112.1876. Larva, (fig.) *Riley.* 8th Missouri Rept., p. 48.1877. Larva. *C. Thomas.* Trans. Dept. Agr. Ill., vol. 15, p. 97.1877. Larva. *French.* Trans. Dept. Agr. Ill.; vol. 15, p. 219.1880. Larva, (fig.) *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.1885. Egg, larva, (fig.) *Hubbard.* Ins. Affecting Oranges, p. 150.1885. Larva, pupa. *Gundlach.* Entom. Cubana, p. 288.1888. Larva, (fig.) *Lintner.* Bull. N. York State Museum, No. 6, p. 14.FOOD PLANTS. *Cereals, etc.***Prodenia phytolaccae.** Abb.-Sm.1797. Larva, (col'd fig.) *Abbot-Smith.* Lep. Ins. Georgia, p. 193, pl. 97.FOOD PLANT. *Phytolacca.***Prodenia commelinæ.** Abb.-Sm.1796. Larva, (col'd fig.) *Abbot-Smith.* Lep. Ins. Georgia, p. 189, pl. 95.1852. Larva. *Guen.* (quotes Abb.-Sm.) Spec. Gener. Noct., vol. 1, p. 162.1871. Larva, (fig.) *Riley.* 3d Missouri Rept., p. 113.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 220.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.FOOD PLANTS. *Cereals.***Prodenia lineatella.** Harvey.1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 139.1881. Larva. *French.* Canad. Entom., vol. 13, p. 24.FOOD PLANTS. *Rubus, Tragopogon, etc.***Euplexia lucipara.** Linn.1829. Larva. *Stephens.* Illus. Brit. Entom., Haust., vol. 3, p. 4.1836. Larva, (col'd fig.) *Curtis.* Brit. Entom., vol. 13, pl. 619.1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 68.1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 1, p. 270.1859. Larva, (col'd fig.) *Humphreys.* Gener. Brit. Moths, vol. 1, pl. 20.1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 237.1883. Larva. *Edwards-Elliot.* Papilio, vol. 3, p. 133.FOOD PLANTS. *Viburnum, Betula, etc.***Nephelodes minians.** Guen.1877. Larva. *C. Thomas.* Trans. Dept. Agr. Ill., vol. 15, p. 99.1877. Larva. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 220.

1878. Larva. *French*. *Canad. Entom.*, vol. 10, p. 61.

1880. Larva. *J. Marten*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 139.

FOOD PLANTS. *Polygonaceæ*, *Gramineæ*.

***Nephelodes violans*. Guen.**

1888. Larva, (fig.) *Lintner*. 4th Rept. State Entom. N. York, p. 54.

***Apamea nictitans*. Bkh.**

1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 1, p. 197.

1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 180.

FOOD PLANTS. *Gramineæ*.

***Apamea immanis*. Guen.**

1884. Larva, pupa, (fig.) *T. J. Edge*. *Agr. Pennsylv.*, p. 106.

1885. Egg, larva. *Lintner*. 2d Rept. N. York State Entom., p. 42.

***Gortyna Harrisii*. Gr. = *leucostigma*.**

1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 320.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 341.

1862. Larva. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 440.

FOOD PLANT. *Aquilegia*.

***Gortyna nitela*. Guen.**

1869. Larval stages, (figs.) *Riley*. 1st Missouri Rept., p. 92.

1869. Larva, (fig.) *Packard*. *Guide to Study of Ins.*, p. 310.

1872. Larva, (fig.) *Le Baron*. 3d Illinois Rept., p. 141.

1876. Larva, (fig.) *G. H. Perkins*. 3d Rept. Vermont Board Agr., p. 556.

1877. Larva, pupa. *Emily A. Smith*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 113.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 221.

1877. Larva. *Packard*. *Inj. Ins. West, Hayden's Rept.*, p. 719.

1879. Larva, (fig.) *Lintner*. *Rept. N. York State Agr. Soc.*, p. 50.

1879. Larva, (fig.) *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 17, Append., p. 142.

1880. Larva, (fig.) *Emily A. Smith*. 7th Illinois Rept., p. 112.

1880. Larva, (fig.) *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 151.

1880. Larva, (fig.) *A. Fuller*, (after Riley.) *Amer. Entom.*, 2d ser., vol. 1, p. 201.

1883. Larva, (fig.) *S. A. Forbes*. *Trans. Wisconsin Agr. Soc.*, p. 11.

1883. Larva, (fig.) *Saunders*. *Ins. Inj. Fruits*, p. 334.

1885. Larva. *Fernald*. *Kingsley's Stand. N. Hist.*, vol. 2, p. 451.

FEEDS in stems of various plants.

***Achatodes Zeæ*. Harris.**

1841. Larva. *Harris*. *Ins. Inj. Vegetat.*, 1st edit., p. 319.

1843. Larva. *Willis Gaylord*. *Trans. N. York State Agr. Soc.*, p. 150.

1852. Larva. *Harris*. *Ins. Inj. Vegetat.*, 2d edit., p. 339.

1862. Larva, pupa. *Harris*. *Ins. Inj. Vegetat.*, Flint's edit., p. 438.

1867. Larva. *Tenney*. *Nat. Hist.*, p. 406.

1869. Larva. *Packard*. *Guide to Study of Ins.*, p. 311.

1877. Larva. *Packard*, (quotes Harris.) *Inj. Ins. West, Hayden's Rept.*, p. 719.

1877. Larva. *C. Thomas*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 100.

1877. Larva. *French*. *Trans. Dept. Agr. Ill.*, vol. 15, p. 222.

1879. Larva, pupa. *W. A. Burkhart*, (quotes Harris.) *Agr. Pennsylv.*, p. 35.

1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 134.

FEEDS in stems of *Sambucus*, *Zea*, etc.

***Arzama obliquata*. G. and R.**

1878. Larva. *C. E. Worthington*. *Canad. Entom.*, vol. 10, p. 15.

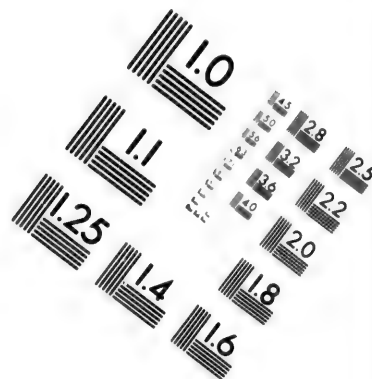
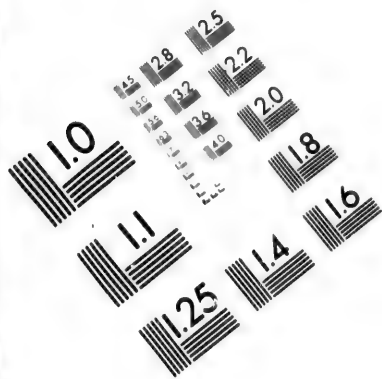
1888. Life history, (brief.) *H. H. Brehme*. *Canad. Entom.*, vol. 20, p. 119.

FEEDS in stems of *Typha latifolia*.

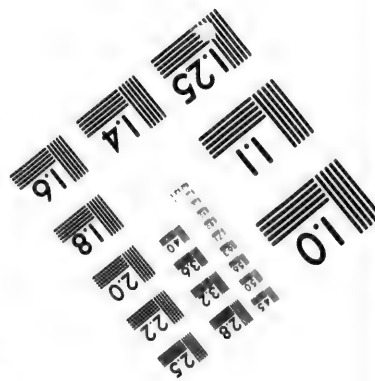
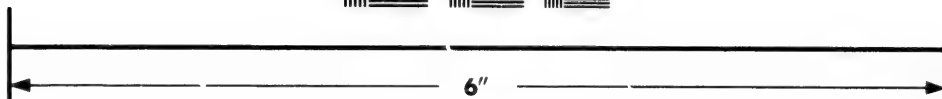
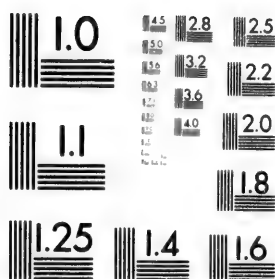
***Arzama melanopyga*. Grote.**

1881. Larva. *J. H. Comstock*. *Papilio*, vol. 1, p. 147.

FEEDS in stalks of *Nymphæa*.



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**Scolecocampa liburna.** Geyer.

1852. Larva, (col'd fig.) *Guen.* (after Abbot, MS.) Spec. Gener. Noct., vol. 1, p. 131, pl. 2, (as *S. ligni*.)

1878. Larva. *W. F. Andrews.* Psyche, vol. 2, p. 272.

1883. Larva. *Edwards—Elliot.* Papilio, vol. 3, p. 134.

FEEDS in decaying stumps of Chestnut and other trees.

**Euthisanotia timais.** Cramer.

1852. Larva, (col'd fig.) *Guen.*, (after Abbot, MS.) Spec. Gener. Noct., vol. 1, p. 116, pl. 2.

1857. Larva, (fig.) *Chenu—Demarets.* Encycl. Hist. Nat. Papillons, vol. 2, p. 111.

1886. Larva, pupa. *Gundlach.* Entom. Cubana, p. 304.

FOOD PLANT. *Panocratum.*

**Monodes nucicolora.** Guen.

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 1, p. 241.

FOOD PLANTS. Various low herbs.

**Heliophila pallens.** Linn.

1829. Larva. *Stephens.* Illus. Brit. Entom., Haust., vol. 3, p. 76.

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 1, p. 93.

1857. Larva. *Chenu—Demarets.* Encycl. Hist. Nat. Papillons, vol. 2, p. 76.

1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths, vol. 1, p. 190.

1882. Larva. *W. F. Kirby.* Europ. Butt. and Moths, p. 160.

FOOD PLANTS. *Gramineæ.*

**Heliophila albilinea.** Hübn.

1877. Life history, (figs.) *Riley.* 9th Missouri Rept., p. 50.

1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 223

1880. Larva. *D. Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 186.

FOOD PLANTS. *Cereals.*

**Heliophila phragmitidicola.** Guen.

1880. Larva. *French.* 6th Rept. Ill. State Norm. Univ., p. 46.

1880. Larva. *D. Coquillett.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 186.

FOOD PLANTS. *Gramineæ.*

**Heliophila pseudargyria.** Guen.

1874. Larva. *Caulfield.* Canad. Entom., vol. 6, p. 132.

1880. Larva. *J. Marten.* Trans. Dept. Agr. Ill., vol. 18, Append., p. 139.

1881. Larva. *French.* Canad. Entom., vol. 13, p. 24.

FOOD PLANTS. *Gramineæ.*

**Heliophila unipuncta.** Haworth.

1860. Larva. *J. Kirkpatrick.* Agr. Rept. Ohio.

1860. Larva, pupa, (fig.) *B. D. Walsh.* Trans. Ill. Agr. Soc., vol. 4, pp. 350, 366.

1861. Larva, pupa. *Packard.* 6th Rept. Maine Board Agr., p. 132.

1862. Life history, (brief.) *Harris.* Ins. Inj. Vegetat., Flint's edit., p. 627.

1865. Larva, pupa, (figs.) *B. D. Walsh.* Trans. Ill. Agr. Soc., vol. 5, p. 482.

1869. Larva. *Packard.* Guide to Study of Ins., p. 305.

1870. Life history, (figs.) *Riley.* 2d Missouri Rept., p. 37.

1870. Larva, (fig.) *T. Glover.* Rept. U. S. Dept. Agr., p. 83.

1871. Life history, (figs.) *Bethune.* Rept. Entom. Soc. Ontario, p. 402.

1875. Larva, pupa, (figs.) *A. J. Cook.* 14th Rept. Michigan Agr. Soc., p. 280.

1876. Larva, (brief.) *Saunders.* Rept. Entom. Soc. Ontario, p. 39.

1876. Egg, larva, pupa, (figs.) *Riley.* 8th Missouri Rept., pp. 32, 183.

1876. Larva, (brief.) *C. Thomas.* Trans. Dept. Agr. Ill., vol. 14, p. 56.

1877. Larva. *C. Thomas.* Trans. Dept. Agr. Ill., vol. 15, p. 81.

1877. Larva, pupa, (fig.) *C. Thomas.* Trans. Dept. Agr. Ill., vol. 15, p. 101.

1877. Larva, pupa. *French.* Trans. Dept. Agr. Ill., vol. 15, p. 224.

1877. Larva. *Packard.* Half-hours with Insects, pp. 184, 217.

1877. Life history, (figs.) *Packard*, (quotes *Riley* and others.) Inj. Ins. West, Hayden's Rept., p. 690.

1877. Egg, larva, pupa, (figs.) *Riley*. Rept. Massachusetts Board Agr., p. 246.  
 1879. Egg, larva, pupa, (figs.) *J. H. Comstock*. Rept. U. S. Dept. Agr., p. 187.  
 1880. Larva, pupa, (figs.) *Riley*. Amer. Entom., 2d ser., vol. 1, p. 170.  
 1880. Life history, (figs.) *Riley*. 3d Rept. Entom. Comm., p. 89.  
 1880. Larva, (fig.) *J. Fletcher*. Rept. Entom. Soc. Ontario, p. 67.  
 1880. Larva, pupa, (figs.) *C. Thomas*. Trans. Dept. Agr. Ill., vol. 18, Append., pp. 5, 43.  
 1883. Larva, pupa, (figs.) *T. J. Edge*. Agr. Pennsylv., p. 73.  
 1885. Egg, larva, (fig.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 451.  
 1885. Life history, (col'd figs.) *Riley*. 4th Rept. Entom. Comm.  
 1887. Larva, (fig.) *Fletcher*. Rept. Entom. Dept. Agr. Can., p. 11.  
 1888. Larva, (fig.) *J. Fletcher*. Rept. Entom. Bot. Dept. Agr. Canada, p. 11.  
 FOOD PLANTS. *Gramineæ*.

**Pyrophila tragopoginis**. Linn.

1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 2, p. 10.  
 1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 416.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 311.  
 1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, p. 44, pl. 17.  
 1870. Larva. *Saunders*. Canad. Entom., vol. 2, p. 73.  
 1871. Larva. *Saunders*, (as *A. depressus*.) Canad. Entom., vol. 3, p. 193.  
 1871. Larva. *Saunders*, (as *A. depressus*.) Rept. Entom. Soc. Ontario, p. 360.  
 1883. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 275.  
 FOOD PLANTS. Various.

**Pyrophila pyramidoides**. *Guen.*, (and vars.)

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 414.  
 1871. Larva, (figs.) *Riley*. 3d Missouri Rept., pp. 73, 75.  
 1871. Larva, (figs.) *Le Baron*, (after *Riley*.) 2d Ill. Rept., p. 56.  
 1871. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 360.  
 1874. Larva. *Saunders*. Canad. Entom., vol. 6, p. 27.  
 1875. Larva. *Saunders*. Canad. Entom., vol. 7, p. 14.  
 1877. Larva, cocoon, pupa, (fig.) *French*. Trans. Dept. Agr. Ill., vol. 15, p. 225.  
 1878. Larva. *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 273.  
 1880. Larva, (fig.) *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 180.  
 1883. Larva, pupa, (fig.) *Saunders*. Ins. Inj. Fruits, p. 274.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 450.  
 FOOD PLANTS. *Vitis*, *Ampelopsis*.

**Tæniocampa incerta**. Hübner.

1852. Larva. *Guen.*, (as *T. hibisci*.) Spec. Gener. Noct., vol. 1, p. 355.  
 1856. Larva. *Fitch*, (as *Orth. instabilis*.) 3d Rept. Ins. N. York, p. 313.  
 1859. Larva. *H. T. Stainton*, (as *Orth. instabilis*.) Brit. Butt. and Moths, vol. 1, p. 243.  
 FOOD PLANTS. *Quercus*, *Salix*, *Prunus*.

**Zotheca tranquilla**. Grote.

1878. Larva. *Hy. Edwards*. Proc. Cal. Acad. Sc., June.  
 FOOD PLANT. *Sambucus*.

**Calymnia orina**. *Guen.*

1873. Larva. *Saunders*. Canad. Entom., vol. 5, p. 206.  
 1881. Larva. *Packard*, (quotes *Saunders*.) Ins. Inj. Forest Trees, p. 47.  
 FOOD PLANT. *Quercus*.

**Scoliopteryx libatrix**. Linn.

1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 3, p. 50.  
 1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 406.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 309.  
 1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, pl. 25.  
 1860. Larva, (brief.) *Duncan*. Natural. Library, vol. 30, p. 232.  
 1872. Larva, (fig.) *J. G. Wood*. Insects at Home, p. 484.

1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 56.  
 1882. Larva, pupa, (brief.) *W. F. Kirby*. *Europ. Butt. and Moths*, p. 185.  
 FOOD PLANT. *Salix*.
- Scopelosoma devia.** Grote.  
 1884. Life history. *Thaxter*. *Canad. Entom.*, vol. 16, p. 33.  
 FOOD PLANT. *Quercus*.
- Scopelosoma morrisonii.** Grote.  
 1884. Life history. *Thaxter*. *Canad. Entom.*, vol. 16, p. 30.  
 FOOD PLANT. *Quercus*.
- Scopelosoma vinulenta.** Grote.  
 1884. Life history. *Thaxter*. *Canad. Entom.*, vol. 16, p. 32.  
 FOOD PLANTS. *Quercus*, *Azalea*.
- Scopelosoma walkeri.** Grote.  
 1884. Life history. *Thaxter*. *Canad. Entom.*, vol. 16, p. 31.  
 FOOD PLANT. *Quercus*.
- Scopelosoma tristigmata.** Grote.  
 1884. Life history. *Thaxter*. *Canad. Entom.*, vol. 16, p. 33.  
 FOOD PLANT. *Quercus*.
- Scopelosoma moffatiana.** Gr.  
 1888. Larva. *R. F. Pearsall*. *Entom. Amer.*, vol. 4, p. 59.
- Lithophane antennata.** Walker. = *cinerea*.  
 1871. Life history, (fig's.) *Riley*. 3d Missouri Rept., p. 135.  
 1877. Larva. *French*, (quotes *Riley*.) *Trans. Dept. Agr. Ill.*, vol. 15, p. 227.  
 1883. Larva, (fig's.) *Saunders*. *Ins. Inj. Fruits*, p. 138.  
 FOOD PLANT. Various fruit trees and fruits.
- Lithophane taticinerea.** Grote.  
 1883. Larva. *Edwards—Elliot*. *Papilio*, vol. 3, p. 135.  
 FOOD PLANT. *Cerasus*.
- Calocampa nupera.** Lintner.  
 1878. Larva. *Thaxter*. *Psyche*, vol. 2, p. 122.
- Calocampa curvimacula.** Morrison.  
 1878. Larva. *Thaxter*. *Psyche*, vol. 2, p. 122.
- Cucullia convexipennis.** G. and R.  
 1869. Larva. *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 215.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 138.  
 FOOD PLANT. *Solidago*.
- Cucullia asterioides.** Guen.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 139.  
 FOOD PLANT. *Solidago*.
- Cucullia intermedia.** Speyer.  
 1869. Larva, pupa, (fig.) *Lintner*. 23d Rept. N. York State Cab. N. Hist., p. 213.  
 FOOD PLANT. Various species of *Compositae*.
- Adipsophanes miscellus.** Grote.  
 1880. Larva. *D. Coquillett*. *N. Amer. Entom.*, No. 7, p. 52.  
 1880. Larva. *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 180.  
 FOOD PLANT. *Verbena*.
- Crambodes talidiformis.** Guen.  
 1880. Larva. *D. Coquillett*. *N. Amer. Entom.*, No. 7, p. 52.  
 1880. Larva. *D. Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 180.  
 1883. Larva, cocoon. *Edwards—Elliot*. *Papilio*, vol. 3, p. 135.  
 FOOD PLANT. *Verbena*.
- Nolaphana malana.** Fitch.  
 1855. Larva. *Fitch*. 2d Rept. Ins. N. York, p. 242.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 343.  
 1877. Larva. *Packard*. *Half-hours with Insects*, p. 181.

1883. Larva, cocoon. *Saunders*. Ins. Inj. Fruits, p. 101.

FOOD PLANT. *Pyrus*, (apple.)

**Anomis erosa.** Hübn.

1852. Larva. *Guen.* Spec. Gener. Noct., vol. 2, p. 395.

1885. Life history, (col'd figs.) *Riley*. 4th Rept. Entom. Comm.

1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 321.

FOOD PLANT. *Urena lobata*.

**Aletia argillacea.** Hübn.

1852. Larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 356.

1855. Egg, larva, pupa. *T. Glover*. Trans. N. York State Agr. Soc., p. 71.

1857. Larva, pupa. *Fitch*. 4th Rept. Ins. N. York.

1862. Larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 457.

1869. Larva. *Packard*. Guide to Study of Ins., p. 313.

1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 38.

1875. Larva, pupa. *Grote*. Rept. Geol. Alabama, p. 199.

1877. Egg, larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 228.

1877. Egg, larva, (figs.) *Packard*, (quotes *Riley* and *Grote*.) Inj. Ins. West, Hayden's Rept., p. 775.

1877. Egg, larva, (fig.) *Packard*. Half-hours with Insects, p. 221.

1879. Egg, larva, pupa, (col'd figs.) *J. H. Comstock*. Rept. on Cotton Ins., Dept. Agr., p. 75.

1880. Larva, pupa, (figs.) *Riley*. Amer. Entom., 2d series, vol. 1, p. 6.

1885. Life history, (col'd figs.) *Riley*. 4th Rept. U. S. Entom. Comm.

1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 450.

FOOD PLANTS. *Malvaceae*.

**Ingura præpilata.** Grote.

1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 135.

FOOD PLANT. *Liquidambar styraciflua*.

**Ingura delineata.** Guen.

1852. Larva. *Guen.*, (after Abb., MS.) Spec. Gener. Noct., vol. 2, p. 311.

1852. Larva, pupa. *Guen.* Spec. Gener. Noct., vol. 3, p. 397.

FOOD PLANT. *Tabernaemontana laurifolia*.

**Calpe canadensis.** Bethune.

1878. Larva. *Thaxter*. Psyche, vol. 2, p. 123.

1880. Larva. *D. Coquillett*. Canad. Entom., vol. 12, p. 44.

1880. Larva. *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 137.

1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 172.

FOOD PLANT. *Thalictrum cornutum*.

**Telesilla cinereola.** Guen.

1880. Larva. *D. Coquillett*. N. Amer. Entom., No. 7, p. 52.

1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 180.

FOOD PLANT. *Ambrosia*.

**Hypsoropha hormos.** Hübn.

1852. Larva. *Guen.* Spec. Gener. Noct. vol. 2, p. 403.

FOOD PLANT. *Diospyros virginiana*.

**Plusia aereoides.** Grote.

1876. Larva, pupa. *Thaxter*. Psyche, vol. 1, p. 188.

FOOD PLANT. *Spiraea salicifolia*.

**Plusia balluca.** Geyer.

1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 29.

1872. Cocoon, pupa. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 163.

1873. Larva. *Saunders*. Canad. Entom., vol. 5, p. 10.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 228.

**Plusia contexta.** Grote.

1883. Life history. *Thaxter*. Papilio, vol. 3, p. 18.

FOOD PLANTS. *Gramineae*.

**Plusia putnami.** Grote.

1883. Larva, (brief). *Thaxter*. *Papilio*, vol. 3, p. 19.

**Plusia dyaus.** Grote.

1885. Larva, pupa. *Lintner*. 2d Rept. State Entom. N. York, p. 94.

**Plusia precatlonis.** Guen.

1869. Larva. *Packard*. Guide to Study of Ins., p. 312.

1880. Larva. *D. Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.

1881. Life history. *D. Coquillett*. Canad. Entom., vol. 13, p. 21.

FOOD PLANTS. *Plantago*, *Arctium*, *Taraxacum*, etc.

**Plusia brassicae.** Riley.

1870. Larva, pupa, (figs.) *Riley*. 2d Missouri Rept., p. 110.

1871. Larva, pupa, (figs.) *Bethune*. Rept. Entom. Soc. Ontario, p. 247.

1877. Larva, cocoon, pupa, (figs.) *Packard*. inj. Ins. West, Hayden's Rept., p. 752.

1877. Larva. *French*, (quotes *Riley*.) Trans. Dept. Agr. Ill., vol. 15, p. 230.

1879. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 17, p. 41.

1880. Larva, cocoon, pupa, (figs.) *J. Marten*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 140.

1883. Life history, (figs.) *Riley*. Rept. Entom. U. S. Dept. Agr., p. 119, pl. 11, figs. 2, 5.

1885. Larva, pupa, (fig.) *Lintner*. 2d Rept. State Entom. N. York, p. 90.

FOOD PLANTS. *Brassica* and other *Cruciferae*.

**Plusia hochenwarthii.** Hoch.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 266.

**Plusia devergens.** Hübn.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 266.

**Ararta cordigera.** Thurb.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 293.

FOOD PLANT. *Vaccinium*.

**Chloridea rhexiae.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 199, pl. 100.

1852. Larva. *Guen*. Spec. Gener. Noct., vol. 2, p. 175.

1858. Larva. *Duncan*. Natural. Library, vol. 22, p. 199.

1880. Larva. *French*. 6th Rept. Ill. State Norm. Univ., p. 46.

1880. Larva. *Riley*. Amer. Entom., 2d series, vol. 1, p. 7.

1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 310.

FOOD PLANTS. *Rhexia Virginica*, *Sesamum*, *Nicotiana*.

**Alaria gauræ.** Abb.—Sm.

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 197, pl. 99.

1852. Larva. *Guen*. Spec. Gener. Noct., vol. 2, p. 170.

1858. Larva, (col'd fig.) *Duncan*, (quotes A. and S.) Natural. Library, vol. 22, p. 200, pl. 24.

FOOD PLANT. *Gaura biennis*.

**Rhodophora florida.** Guen.

1867. Larva. *Rich*. 12th Rept. N. York State Agr. Soc., p. 900.

1869. Larva. *Saunders*. Canad. Entom., vol. 2, p. 6.

1871. Egg, young larva. *Saunders*. Canad. Entom., vol. 3, p. 76.

1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 450.

FOOD PLANT. Flowers of *Oenothera biennis*.

**Heliothis phlogophaqus.** G. and R., (and vars.)

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 230.

1881. Larva. *D. Coquillett*. *Papilio*, vol. 1, p. 56.

FOOD PLANTS. *Gramineæ*.

***Heliothis armigera*. Hüb.**

1855. Egg, larva, pupa. *T. Glover*. Trans. N. York State Agr. Soc., p. 99.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 1, p. 292.  
 1871. Egg, larva, (fig.) *Riley*. 3d Missouri Rept., p. 105.  
 1877. Egg, larva. *Packard*. Half-hours with Ins., p. 224.  
 1877. Larva. *Packard*. Inj. Ins. West, Hayden's Rept., p. 778.  
 1877. Larva. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 103.  
 1877. Larva, pupa. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 232.  
 1879. Life history, (col'd figs.) *J. H. Comstock*. Rept. Cotton Ins. Dept. Agr., p. 297.  
 1880. Egg, larva, cocoon, pupa, (figs.) *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 150.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 225.  
 1883. Larva, cocoon, pupa, (figs.) *S. S. Rathvon*. Agr. Pennsyln., p. 238.  
 1885. Life history, (col'd figs.) *Riley*. 4th Rept. (U. S.) Entom. Comm.  
 1886. Larva, pupa. *Gundlach*. Entom. Cubana, p. 309.

FOOD PLANTS. *Cotton, Reseda*.

***Pyrrhia exprimens*. Hüb.**

1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 163.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 233.  
 1883. Larva, pupa. *Edwards—Elliot*. Papilio, vol. 3, p. 135.

FOOD PLANT. *Desmodium*.

***Pyrrhia angulata*. Grote.**

1881. Larva. *Coquillett*. Papilio, vol. 1, p. 8.

FOOD PLANT. *Polygonum*.

***Tarache erastrioides*. Guen.**

1881. Larva. *Coquillett*. Papilio, vol. 1, p. 8.  
 1883. Larva, (brief.) *Coquillett*. Papilio, vol. 3, p. 84.

FOOD PLANT. *Ambrosia*.

***Tarache candeacta*. Hüb.**

1852. Larva, (col'd fig.) *Guen*. W. Spec. Gener. Noct., vol. 2, p. 26, pl. 2.  
 1883. Larva, (brief.) *Coquillett*. Papilio, vol. 3, p. 84.

FOOD PLANT. *Ambrosia*.

***Tarache delecta*. Walk.**

1870. Larva, pupa, (fig.) *Packard*, (as *Acon. metallica*, after *Abbot*.) Amer. Naturalist, vol. 4, p. 229.  
 1888. Larva. *A. C. Weeks*. Entom. Amer., vol. 4, p. 46.

FOOD PLANT. *Hibiscus moschentos*.

***Chamyris cerintha*. Tr.**

1881. Larva. *Coquillett*. Papilio, vol. 1, p. 56.

FOOD PLANT. *Pyrus*.

***Eustrotia carneola*. Guen.**

1881. Larva. *Coquillett*. Papilio, vol. 1, p. 7.

FOOD PLANT. *Rumex*.

***Xanthoptera semicrocea*. Guen.**

1852. Larva, (col'd fig.) *Guen*, (after *Abb.*, M. S.) Spec. Gener. Noct., pl. 2.  
 1869. Larva. *Packard*. Guide to Study of Ins., p. 316.  
 1874. Life history, (figs.) *Riley*. Canad. Entom., vol. 6, p. 208.

FOOD PLANT. *Sarracenia*.

***Exyra rolandiana*. Grote.**

1877. Larva. *Thaxter*. Psycho, vol. 2, p. 39.

FOOD PLANT. *Sarracenia*.

***Drasteria erectea*. Cram.**

1868. Larva. *Saunders*. Canad. Entom., vol. 1, p. 4.  
 1869. Larva, (fig.) *Harris*. Entom. Corres., pp. 175, 318.  
 1869. Larva. *Packard*. Guido to Study of Ins., p. 317.

1875. Larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 37.  
 1875. Egg. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.  
 1875. Larva. *Saunders*. Canad. Entom., vol. 7, p. 116.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 233.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.  
 1882. Larva. *Saunders*. 12th Rept. Entom. Soc. Ontario, p. 47.  
 1884. Life history. *French*. Papilio, vol. 4, p. 148.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 449.  
 FOOD PLANT. *Trifolium*.
- Syneda graphica***. Hübn.   
 1852. Larva, (col'd fig.) *Guen.*, (after Abb., MS.) Spec. Gener. Noct., vol. 3, p. 72, pl. 2.
- Catocala epione***. Drury.  
 1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 93.  
 FOOD PLANT. *Quercus*.
- Catocala desperata***. *Guen.* = *vidua*. Abb.-Sm.  
 1797. Larva, (col'd fig.) *Abbot-Smith*. Lep. Ins. Georgia, p. 181, pl. 91.  
 1852. Larva. *Guen.*, (quotes Abb.-Sm.) Spec. Gener. Noct., vol. 3, p. 95.  
 1888. Life history. *French*. Canad. Entom., vol. 20, p. 28.  
 FOOD PLANTS. *Carya*, *Quercus*.
- Catocala flebilis***. Grote.  
 1881. Larva, pupa. *D. Kellicott*. Papilio, vol. 1, p. 141.  
 FOOD PLANT. *Carya*.
- Catocala relictata***. Walk.  
 1888. Life history. *Howard L. Clark*. Canad. Entom., vol. 20, p. 17.  
 FOOD PLANT. *Salix*.
- Catocala amatrix***. Hübn.  
 1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 86.  
 1881. Larva, (brief.) *Ph. Fischer*. Bull. Buffalo Soc. Nat. Hist., vol. 4, p. 62.  
 1881. Larva, pupa. *D. Kellicott*. Papilio, vol. 1, p. 142.  
 1884. Life history. *French*. Papilio, vol. 4, p. 8.  
 FOOD PLANT. *Populus*.
- Catocala cara***. *Guen.*  
 1881. Larva. *A. Koebele*, (as *C. carissima*.) Bull. Brooklyn Entom. Soc., vol. 4, p. 22.  
 FOOD PLANT. *Salix*.
- Catocala concumbens***. Walker.  
 1863. Larva. *Saunders*. Proc. Entom. Soc. Philad., vol. 2, p. 29.  
 FOOD PLANT. *Salix*.
- Catocala meskel***. Grote.  
 1883. Larva. *R. Bunker*. Canad. Entom., vol. 15, p. 100.  
 FOOD PLANT. *Populus*.
- Catocala unijuga***. Walker.  
 1881. Larva. *D. Kellicott*. Canad. Entom., vol. 13, p. 38.  
 FOOD PLANT. *Populus*.
- Catocala parta***. *Guen.*  
 1883. Larva. *Hy. Edwards*. Papilio, vol. 3, p. 24.  
 FOOD PLANT. *Salix*.
- Catocala innubens***. *Guen.*  
 1888. Life history. *French*. Canad. Entom., vol. 20, p. 170.
- Catocala coccinata***. Grote.  
 1881. Larva. *D. W. Coquillett*. Papilio, vol. 1, p. 56.  
 FOOD PLANT. *Quercus*.
- Catocala ultronla***. Hübn.  
 1852. Larva. *Guen.* Spec. Gener. Noct., vol. 3, p. 89.  
 1869. Larva. *Packard*. Guide to Study of Ins., p. 317.

1874. Larva. *Saunders*. *Canad. Entom.*, vol. 6, p. 147.  
 1879. Larva, pupa, (brief.) *Saunders*. *Rept. Entom. Soc. Ontario*, p. 74.  
 1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj. Fruits*, p. 177.  
 FOOD PLANTS. *Prunus*, *Cornus*, *Quercus*.

**Catocala illia.** Cram.

1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 3, p. 92.  
 1875. Larva. *Caulfield*. *Canad. Entom.*, vol. 7, p. 208.  
 1881. Larva. *A. Koebele*. *Bull. Brooklyn Entom. Soc.*, vol. 4, p. 22.  
 1884. Life history. *French*. *Canad. Entom.*, vol. 16, p. 12.  
 FOOD PLANT. *Quercus*.

**Catocala zoe.** Behr.

1870. Larva, (brief.) *Behr*. *Trans. Amer. Entom. Soc.*, p. 24.  
 FOOD PLANT. *Quercus*.

**Catocala neogama.** Abb.-Sm.

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, pl. 88.  
 1852. Larva. *Guen.*, (quotes Abb.-Sm.) *Spec. Gener. Noct.*, vol. 3, p. 96.  
 1858. Larva, (col'd fig.) *Duncan*. *Natural. Library*, vol. 27, p. 203, pl. 26.  
 FOOD PLANT. *Quercus*.

**Catocala palæogama.** Guen.

1888. Life history. *French*. *Canad. Entom.*, vol. 20, p. 108.  
 FOOD PLANT. *Carya*.

**Catocala muliercula.** Guen.

1852. Larva, (col'd fig.) *Guen.*, (after Abb., M. S.) *Spec. Gener. Noct.*, vol. 3, p. 97, pl. 2.  
 FOOD PLANTS. *Myrtaceæ*.

**Catocala concors.** Abb.-Sm.

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 177, pl. 89.  
 1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 3, p. 99.  
 FOOD PLANTS. *Myrtaceæ*, *Leguminosæ*.

**Catocala polygama.** Guen.

1869. Larva. *E. B. Reed*. *Canad. Entom.*, vol. 2, p. 30.  
 1876. Larva. *Saunders*. *Canad. Entom.*, vol. 8, p. 74.  
 FOOD PLANT. *Cratægus*.

**Catocala cratægi.** Saunders.

1876. Larva. *Saunders*. *Canad. Entom.*, vol. 8, p. 72.  
 FOOD PLANT. *Cratægus*.

**Catocala amasia.** Abb.-Sm.

1797. Larva, (col'd fig.) *Abbot-Smith*. *Lep. Ins. Georgia*, p. 179, pl. 90.  
 1852. Larva. *Guen.*, (quotes Abb.-Sm.) *Spec. Gener. Noct.*, vol. 3, p. 104.  
 1858. Larva. *Duncan*. *Natural. Library*, vol. 22, p. 205.  
 FOOD PLANT. *Melia azedarach*.

**Catocala fratercula.** G. and R.

1881. Larva. *Coquillett*. *Papilio*, vol. 1, p. 7.  
 FOOD PLANT. *Quercus*.

**Catocala grynea.** Cram.

1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 183.  
 1881. Larva. *A. Koebele*. *Bull. Brooklyn Entom. Soc.*, vol. 4, p. 22.  
 FOOD PLANT. *Pyrus*.

**Catocala amica.** Hübn.

1852. Larva. *Guen.* *Spec. Gener. Noct.*, vol. 3, p. 106.  
 1880. Larva. *Coquillett*. *Trans. Dept. Agr. Ill.*, vol. 18, Append., p. 182.  
 1881. Larva. *Coquillett*. *Papilio*, vol. 1, p. 7.  
 FOOD PLANT. *Quercus*.

**Parthenos nubilla.** Hübn.

1869. Larva. *Hübner*. *Entom. Corres.*, p. 319.  
 FOOD PLANT. *Robinia*.

**Allotria elonympha.** Hübn.1852. Larva. *Guen. Spec. Gener. Noct.*, vol. 3, p. 37.FOOD PLANTS. *Juglans, Glycine.***Parallella bistriaris.** Hübn.1852. Larva. *Guen. Spec. Gener. Noct.*, vol. 3, p. 268.1870. Larva. *Saunders. Canad. Entom.*, vol. 2, p. 130.1881. Larva. *Packard. Ins. Inj. Forest Trees*, p. 113.1883. Larva. *Edwards—Elliot. Papilio*, vol. 3, p. 136.FOOD PLANT. *Acer rubrum.***Agnomonía anilis.** Hübn.1852. Larva, pupa. *Guen. Spec. Gener. Noct.*, vol. 3, p. 274.FOOD PLANT. *Chironia.***Panopoda roseicosta.** Guen.1852. Larva. *Guen. Spec. Gener. Noct.*, vol. 3, p. 325.FOOD PLANT. *Juglans.***Remigia latipes.** Guen.1852. Larva. *Guen. Spec. Gener. Noct.*, vol. 3, p. 315.1886. Larva, pupa. *Gundlach. Entom. Cubana*, p. 354.FOOD PLANT. *Hypericum.***Poaphila flavistriaria.** Hübn.1852. Larva, pupa, (col'd figs.) *Guen. Spec. Gener. Noct.*, vol. 3, p. 302, pl. 2.FOOD PLANT. *Scutellaria.***Poaphila sylvarum.** Guen.1852. Larva. *Guen.*, (from Abb., MS.) *Spec. Gener. Noct.*, vol. 3, p. 300.FOOD PLANT. *Andromeda ferruginea.***Poaphila quadriflaris.** Hübn.1852. Larva. *Guen. Spec. Gener. Noct.*, vol. 3, p. 300.FOOD PLANT. *Gossypium.***Erebus odora.** Linn.1886. Larva, pupa. *Gundlach. Entom. Cubana*, p. 367.1887. Larva, (brief.) *H. T. Fernald. Entom. Amer.*, vol. 3, p. 78.1888. Egg, young larva. *H. T. Fernald*, (quotes Wm. Blake in MS.) *Entom. Amer.*, vol. 4, p. 36.FOOD PLANTS. *Cassia fistula, Pithecolobium, Saman.***Pheocyma lunifera.** Hübn.1886. Larva, pupa. *Packard. Bull. No. 12, U. S. Dept. Agr.*, p. 23.FOOD PLANT. *Pinus.***Ypsia aeruginosa.** Guen.1852. Larva, pupa. *Guen. Spec. Gener. Noct.*, vol. 3, p. 17.FOOD PLANT. *Cornus.***Homoptera edusa.** Drury, (and vars.)1852. Larva, pupa, (col'd fig.) *Guen.*, (from Abb., MS.) *Spec. Gener. Noct.*, vol. 3, pp. 13, 14, pl. 2.1870. Larva, pupa, (fig.) *Packard. Amer. Naturalist*, vol. 4, p. 229.1870. Larva. *Behr*, (as *H. salicis*.) *Trans. Amer. Entom. Soc.*, p. 28.1870. Larva. *Behr*, (as *H. rozæ*.) *Loc. cit.*, p. 28.1882. Life history. *French. Canad. Entom.*, vol. 14, p. 130.1888. Larva. *Lintner*, (quotes *Guen.*) *4th Report N. Y. State Entom.*, p. 58.FOOD PLANTS. *Rosa, Salix, etc.***Homoptera minerea.** Guen.1852. Larva, pupa. *Guen. Spec. Gener. Noct.*, vol. 3, p. 15.**Homoptera calycanthata.** Abb.—Sm.1797. Larva, pupa, (col'd figs.) *Abbot—Smith. Lep. Ins. Georgia*, p. 104, pl. 207.1852. Larva, pupa. *Guen.*, (quotes Abb.—Sm.) *Spec. Gener. Noct.*, vol. 3, p. 15.FOOD PLANT. *Calycanthus floridus.*

**Pseudanthracæa coraciæ.** Guen.

1852. Larva, (col'd fig.) Guen. Spec. Gener. Noct., vol. 3, p. 19, pl. 2.

FOOD PLANT. *Quercus*.**Epizeuxis americanis.**

1854. Larva, pupa. Guen. Spec. Gener. Delt. Pyral., vol. 8, p. 78.

FOOD PLANTS. *Leguminosæ*.**Epizeuxis æmul.** Hübn.1870. Larva, pupa, (figs.) Packard, (as *Holia æmulalis*—after Abbot, MS.)  
Amer. Naturalist, vol. 4, p. 229.

1886. Larva, pupa. Packard. Rept. Entom. U. S. Dept. Agr., p. 326.

FOOD PLANT. *Phlox*.**Pseudaglossa lubricalis.** Geyer.

1880. Larva. J. Marten. Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.

1880. Larva. Coquillett. Trans. Dept. Agr. Ill., vol. 18, Append., p. 182.

1880. Larva. Coquillett. Canad. Entom., vol. 12, p. 44.

FOOD PLANTS. *Gramineæ*.**Chytolita morbidalis.** Guen.

1880. Larva. Coquillett. Canad. Entom., vol. 12, p. 44.

1880. Larva. J. Marten. Trans. Dept. Agr. Ill., vol. 18, Append., p. 138.

1880. Larva. Coquillett. Loc. cit., p. 182.

FOOD PLANTS. *Corylus*, *Gramineæ*.**Philometra serraticornis.** Grote.

1877. Larva, pupa. French. Trans. Dept. Agr. Ill., vol. 15, p. 246.

FEEDS on roots of grasses.

**Hypæna evanidalis.** Robinson.1856. Larva, pupa. Fitch, (as *H. humuli*.) 2d Rept. Ins.-N. York, p. 324.

1880. Larva. Coquillett. Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.

FOOD PLANT. *Humulus*.**Hypæna scabra.** Fabr. = *humuli*. Harris.

1841. Larva. Harris. Ins. Inj. Vegetat., 1st edit., p. 345.

1862. Larva, cocoon. Harris. Ins. Inj. Vegetat., 2d edit., p. 372.

1862. Larva, cocoon. Harris. Ins. Inj. Vegetat., Flint's edit., p. 477.

1868. Larva, pupa, (figs.) Packard. Amer. Naturalist, vol. 2, p. 333.

1869. Larva, (fig.) Packard. Guide to Study of Ins., p. 327.

1869. Larva. Harris. Entom. Corres., p. 322.

1872. Larva. Bethune. Rept. Entom. Soc. Ontario.

1877. Larva, pupa, (figs.) Packard. Inj. Ins. West, Hayden's Rept., p. 773.

1877. Larva. French, (quotes Bethune.) Trans. Dept. Agr. Ill., vol. 15, p. 245.

1879. Larva, pupa. J. H. Comstock. Rept. Entom. Dept. Agr., p. 252.

1880. Larva. Coquillett. Canad. Entom., vol. 12, p. 43.

1880. Larva. Riley. Amer. Entom., 2d series, vol. 1, p. 8.

1880. Larva. Coquillett. Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.

1881. Life history. Coquillett. Canad. Entom., vol. 13, p. 137.

FOOD PLANTS. *Humulus*, *Trifolium*, etc.**Hypæna madefactalis.** Guen.

1854. Larva. Guen. Spec. Gener. Delt. Pyral., vol. 8, p. 35.

FOOD PLANT. *Alisma plantago*.

## GEOMETRIDÆ.

**Choerodes clemitaria.** Abb.-Sm.

1797. Larva, (col'd fig.) Abbot-Smith. Lep. Ins. Georgia, p. 201, pl. 101.

1876. Larva. Packard. Monogr. Geometr., p. 562.

1887. Larva, (brief.) D. Bruce. Entom. Amer., vol. 3, p. 47.

FOOD PLANTS. *Ulmus*, *Clematis*, etc.**Choerodes transversata.** Drury.

1833. Larva, (col'd fig.) Titian Peale. Lep. Americana, pl. 9.

, pl. 2.

Entom.

Noct.,

p. 58.

pl. 207.

p. 15.

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.*, p. 561, pl. 13.
1880. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 12, p. 236.
1881. Larva. *Packard*. *Ins. Inj. Forest Trees*, p. 112.
1887. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANTS. *Myrica*, *Geranium*, *Acer*, etc.
- Choerodes falcata.** *Packard*.
1876. Egg, (brief.) *Packard*. *Monogr. Geometr.*, p. 558.
- Tetracis ægrotata.** *Guen*.
1874. Larva, cocoon, pupa. *Hy. Edwards*. *Proc. Cal. Acad. Sc.*, September.
- FOOD PLANTS. *Geranium*, *Rosa*, etc.
- Tetracis crocallata.** *Guen*.
1869. Egg, larva. *Minot*. *Canad. Entom.*, vol. 2, p. 28.
1876. Larva. *Packard*, (quotes *Minot*.) *Monogr. Geometr.*, p. 748.
1879. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 12, p. 193.
1887. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANTS. *Castanea*, *Rhus*, etc.
- Tetracis lorata.** *Grote*.
1869. Egg. *Minot*. *Canad. Entom.*, vol. 2, p. 28.
1876. Pupa, (fig.) *Packard*. *Monogr. Geometr.*, pl. 13.
1877. Larva, pupa. *L. W. Goodell*. *Canad. Entom.*, vol. 9, p. 62.
1884. Larva, pupa. *Packard*. *Amer. Naturalist*, vol. 18, p. 935.
- FOOD PLANT. *Comptonia asplenifolia*.
- Tetracis trianguliferata.** *Packard*.
1886. Life history. *French*. *Canad. Entom.*, vol. 18, p. 105.
- FOOD PLANT. *Ribes aureum*.
- Metanema quercivoraria.** *Guen*.
1857. Larva. *Guen*, (after Abbot's MS. drawing.) *Spec. Gener. Phal.*, vol. 1, p. 172.
1876. Larva. *Packard*, (quotes *Guen*.) *Monogr. Geometr.*, p. 545.
1881. Larva, (brief.) *Packard*. *Ins. Inj. Forest Trees*, p. 51.
- FOOD PLANT. *Quercus*.
- Metanema inatomaria.** *Guen*.
1887. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANT. *Populus*.
- Drepanodes varus.** *G. and R.*
1875. Larva, (fig.) *Packard*. *Amer. Naturalist*, vol. 9, p. 180.
1876. Larva, pupa, (fig.) *Packard*. *Monogr. Geometr.*, p. 43, pl. 13.
1877. Larva, pupa, (figs.) *Packard*. *Half-hours with Insects*, p. 270.
1881. Larva, pupa, (figs.) *Packard*. *Ins. Inj. Forest Trees*, p. 246.
- FOOD PLANT. *Juniperus*.
- Caberodes confusaria.** *Hübner*.
1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.*, pl. 13.
1857. Larva, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.
- FOOD PLANT. *Trifolium*.
- Ennomos alniaria.** *Linn.*
1859. Larva. *H. T. Stainton*. *Brit. Butt. and Moths*, vol. 2, p. 15.
1859. Larva, (brief.) *Humphreys*. *Gener. Brit. Moths*, vol. 2, p. 84.
1869. Larva. *Newman*. *Brit. Moths*, p. 56.
1876. Larva, pupa, (fig.) *Packard*, (quotes *Goodell* and *Scudder* in lit.) *Monogr. Geometr.*, p. 530, pl. 13.
1881. Larva, pupa. *Packard*. *Ins. Inj. Forest Trees*, p. 92.
1882. Larva. *W. F. Kirby*. *Europ. Butt. and Moths*, p. 299.
1887. Egg, pupa, (brief.) *D. Bruce*. *Entom. Amer.*, vol. 3, p. 47.

1888. Cocoon, (brief.) *M. S. Crane*. Entom. Amer., vol. 4, p. 13.

FOOD PLANTS. *Betula*, *Alnus*, *Castanea*, etc.

**Ennomos subsignaria.** Hübn.

1866. Life history. *Graef—Wiebe*. Rept. Brooklyn Hort. Soc.

1866. Larva. *B. D. Walsh*. Pract. Entom., p. 57.

1868. Larva. *Packard*. Amer. Naturalist, vol. 2, p. 333.

1876. Larva. *Packard*. Monogr. Geometr., p. 528.

1887. Larva. *French*. Trans. Dept. Agr. Ill., vol. 75, p. 224.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 62.

1882. Life history, (brief.) *C. R. Dodge*. Canad. Entom., vol. 14, p. 30.

1882. Life history, (brief.) *C. R. Dodge*. Rept. Entom. Soc. Ontario, p. 18.

1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 112.

FOOD PLANTS. Various trees.

**Selenia kentaria.** G. and R.

1887. Egg, larva, (brief.) *D. Bruce*. Entom. Amer., vol. 3, p. 47.

FOOD PLANTS. *Betula*, *Acer*, etc.

**Endropia obtusaria.** Hübn.

1876. Larva, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 517, pl. 13.

FOOD PLANT. *Impatiens*.

**Endropia pectinaria.** W. V.

1876. Larva. *Packard*. Monogr. Geometr., p. 513.

1881. Larva. *Packard*, (after Abbot's MS. drawing.) Ins. Inj. Forest Trees, p. 50.

FOOD PLANTS. *Quercus*, etc.

**Endropia bilinearia.** Packard.

1881. Larva, (brief.) *Packard*. Ins. Inj. Forest Trees, p. 49.

1887. Larva, (brief.) *D. Bruce*. Entom. Amer., vol. 3, p. 47.

FOOD PLANTS. *Prunus*, *Quercus*, etc.

**Endropia armataria.** H. Sch.

1869. Larva. *Fitch*. 13th Rept. Ins. N. York, p. 522.

1871. Larva. *Saunders*. Canad. Entom., vol. 3, p. 130.

1871. Larva. *Saunders*. Rept. Entom. Soc. Ontario, p. 378.

1872. Larva. *T. Glover*. Rept. Entom. Trans. N. York State Agr. Soc., p. 83.

1880. Larva, pupa. *Saunders*. Ins. Inj. Fruits, p. 354.

FOOD PLANT. *Ribes*.

**Endropia textrinaria.** G. and R.

1869. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 508, pl. 13.

1884. Larva, pupa. *Packard*. Amer. Naturalist, vol. 18, p. 934.

FOOD PLANT. *Quercus*.

**Metrocampa margaritata.** Linn.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 10.

1859. Larva, (brief.) *Humphreys*. Gener. Brit. Moths, p. 86.

1869. Larva. *Newman*. Brit. Moths, p. 53.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 298.

FOOD PLANTS. *Quercus*, *Betula*, *Fagus*, etc.

**Therina fervidaria.** Hübn.

1876. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 494, pl. 13.

1886. Larva, pupa. *Packard*. Rept. Entom. U. S. Dept. Agr., p. 329.

FOOD PLANT. *Halesia diptera*.

**Therina endropiaria.** G. and R.

1879. Larva. *L. W. Goodell*. Canad. Entom., vol. 11, p. 194.

FOOD PLANT. *Quercus*.

***Therina seminudaria*. Walker.**1886. Pupa. *Packard*. Rept. Entom. U. S. Dept. Agr., p. 329.***Anagoga pulveraria*. Linn.**1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 59.1869. Larva. *Merryfield*. Newman's Brit. Moths, p. 90.1876. Larva, pupa. *Packard*, (quotes *Merryfield* and *L. W. Goodell* in lit.)  
Monogr. Geometr., 488.FOOD PLANT. *Salix*.***Angerona crocataria*. Fabr.**1869. Larva. *Packard*. Guide to Study of Ins., p. 319.1871. Egg, larva, pupa. *G. J. Bowles*. Canad. Entom., vol. 3, p. 9.1871. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 377.1876. Larva, (fig.) *Packard*. Monogr. Geometr., p. 475, pl. 13.1877. Larva. *French*, (quotes *Packard*.) Trans. Dept. Agr. Ill., vol. 15, p. 273.1883. Larva, pupa. *S. A. Forbes*. Trans. Wisconsin Agr. Soc., vol. 31, p. 6.1883. Larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 348.FOOD PLANTS. *Ribes*, *Fragaria*, etc.***Nematocampa filamentaria*. Guen.**1869. Larva, (fig.) *Harris*. Entom. Corres., p. 322, pl. 3.1876. Larva, pupa, (fig.) *Packard*. Monogr. Geometr., p. 471, pl. 13.1877. Larva. *French*, (quotes *Packard*.) Trans. Dept. Agr. Ill., vol. 15, p. 242.1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 149.1883. Larva, cocoon, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 167.1883. Larva. *S. A. Forbes*. Trans. Wisconsin Agr. Soc., vol. 13, p. 5.FOOD PLANTS. *Ribes*, *Fragaria*, etc.***Hyperetis nyssaria*. Guen. = *amicaria*. H. Sch.**1876. Larva. *Saunders*. Canad. Entom., vol. 3, p. 209.1876. Larva, pupa, (figs.) *Packard*, (after *Abbot's* MS. drawings.) Monogr.  
Geometr., p. 464, pl. 13.1881. Larva. *Packard*, (quotes *Saunders*.) Ins. Inj. Forest Trees, p. 129.FOOD PLANTS. *Fagus*, *Hypericum*.***Aplodes rubrolinaria*. Pack.**1887. Larva. *Hulst*. Entom. Amer., vol. 3, p. 72.FOOD PLANT. *Myrica cerifera*.***Aplodes mimosaria*. Guen.**1864. Larva, pupa, (brief.) *B. D. Walsh*. Proc. Boston Soc. N. Hist., vol. 9,  
p. 301.1876. Larva, pupa. *Packard*, (quotes *Walsh*.) Monogr. Geometr., p. 389.1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 49.FOOD PLANT. *Quercus*.***Aplodes packardaria*. Grote.**1876. Larva, pupa. *Packard*, (as *A. rubrifrontalis*.) Monogr. Geometr., p. 387.FOOD PLANT. *Comptonia asplenifolia*.***Aplodes brunnearia*. Pack.**1876. Larva, pupa, (fig.) *Packard*, (after *Abbot's* MS. drawing.) Monogr.  
Geometr., p. 388, pl. 13.FOOD PLANT. *Juglans nigra*.***Aplodes coniferaria*. Pack.**1884. Larva, pupa. *Packard*. Amer. Naturalist, vol. 18, p. 933.FOOD PLANT. *Abies*.***Synchlora rubivora*. Riley.**1869. Larva, (fig.) *Riley*. 1st Missoari Rept., p. 139.1873. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 16.1876. Larva. *Packard*, (quotes *Riley*.) Monogr. Geometr., p. 382.1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 238.

1883. Larva, pupa, (figs.) *Saunders*. *Ins. Inj.*, Fruits, p. 316.

FOOD PLANT. *Rubus*.

***Synchlora excurvaria*. Packard.**

1876. Larva, (fig.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.*, pl. 13.

***Chlorosea bistriaria*. Packard.**

1888. Larva. *Hulst.* *Entom. Amer.*, vol. 3, p. 193.

FOOD PLANT. *Solidago*.

***Eucrestis chloroleucaria*. Guen.**

1879. Larva, pupa. *Hulst.* *Bull. Brooklyn Entom. Soc.*, vol. 2, p. 78.

1880. Larva, pupa. *L. W. Goodell.* *Canad. Entom.*, vol. 12, p. 235.

FOOD PLANTS. *Leucanthemum vulgare*, *Helianthus*, etc.

***Dysteris abortivaria*. H. Sch.**

1877. Larva. *French.* *Trans. Dept. Agr. Ill.*, vol. 15, p. 238.

FOOD PLANT. *Vitis*.

***Ephyra pendulinaria*. Guen.**

1876. Larva, pupa, (fig.) *Packard*, (quotes Scudder in MS.) *Monogr. Geometr.*, p. 363, pl. 13.

FOOD PLANT. *Comptonia asplenoides*.

***Ephyra myrtaria*. Guen.**

1877. Larva, pupa. *L. W. Goodell.* *Canad. Entom.*, vol. 9, p. 62.

FOOD PLANTS. *Comptonia*, *Gaylussacia*.

***Arrhostia lumenaria*. Hübn.**

1876. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.*, p. 365, pl. 13.

FOOD PLANT. *Psoralea*.

***Acidalia insularia*. Guen.**

1876. Pupa, (fig.) *Packard.* *Monogr. Geometr.*, p. 336, pl. 13.

1887. Larva, pupa. *Hulst.* *Entom. Amer.*, vol. 3, p. 175.

FOOD PLANT. *Cassia chamaecrista*.

***Acidalia enucleata*. Guen.**

1857. Larva, pupa, (fig.) *Guen.* *Spec. Gener. Phal.*, pl. 12.

1876. Larva, pupa, (figs.) *Packard*, (quotes Guen.) *Monogr. Geometr.*, p. 348, pl. 13.

1879. Larva, cocoon. *L. W. Goodell.* *Canad. Entom.*, vol. 11, p. 194.

1880. Egg, young larva. *L. W. Goodell.* *Canad. Entom.*, vol. 12, p. 235.

FOOD PLANT. *Rhexia lutea*.

***Acidalia ordinata*. Walk.**

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.*, p. 565, pl. 13.

FOOD PLANT. *Trillium stylosum*.

***Stegania pustularia*. Guen.**

1871. Larva. *Saunders.* *Canad. Entom.*, vol. 3, p. 225.

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawing.) *Monogr. Geometr.*, p. 310, pl. 13, (quotes Saunders.)

1881. Larva. *Packard*, (quotes Saunders.) *Ins. Inj. Forest Trees*, p. 112.

FOOD PLANT. *Acer*.

***Eumacaria brunnearia*. Packard.**

1878. Larva. *L. W. Goodell.* *Canad. Entom.*, vol. 10, p. 66.

1885. Larva, pupa. *D. Kellicott.* *Canad. Entom.*, vol. 17, p. 32.

FOOD PLANT. *Prunus*.

***Semiothisa præatomata*. Haworth.**

1857. Larva. *Guen.* *Spec. Gener. Phal.*, vol. 2, p. 76.

1876. Larva. *Packard*, (quotes Guen.) *Monogr. Geometr.*, p. 293.

FOOD PLANT. *Vaccinium*.

**Semiothisa enotata.** Guen.

1876. Larva, pupa, (figs.) *Packard*, (from Abbot's MS. drawing.) Monogr. Geometr., p. 564, pl. 13.

FOOD PLANT. *Lactuca grandifolia*.

**Thamnonoma travaria.** Linn.

1829. Larva. *Stephens*. Ill. Brit. Entom., Haust., vol. 3, p. 194.  
 1857. Larva. *Guen.* Spec. Gener. Phal., vol. 2, p. 93.  
 1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 56.  
 1859. Larva, (col'd fig.) *Humphreys*. Gen. Brit. Moths, pl. 31.  
 1870. Larva. *Packard*, (quotes *Guen.*) Inj. Ins. (new or little known), p. 12.  
 1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 318.

FOOD PLANT. *Ribes*.

**Thamnonoma brunneata.** Thunb.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 62.

FOOD PLANT. *Vaccinium*.

**Eufitchia ribearia.** Fitch.

1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 427.  
 1865. Larva. *B. D. Walsh*. Practical Entom., p. 22.  
 1869. Larva. *Harris*. Entom. Corres., p. 320.  
 1871. Larva, pupa, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 374.  
 1873. Larva, pupa, (fig.) *A. J. Cook*. 12th Rept. Michigan Agr. Soc., p. 143.  
 1874. Egg, larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 19.  
 1874. Larva. *Saunders*. Canad. Entom., vol. 6, p. 138.  
 1875. Larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 33.  
 1876. Larva, (fig.) *Packard*. Monogr. Geometr., p. 248, pl. 13.  
 1877. Larva, pupa, (figs.) *Packard*. Ins. Inj. West. Hayden's Rept., p. 191.  
 1877. Larva, pupa. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 237.  
 1877. Larva, (fig.) *Packard*. Half-hours with Insects, p. 51.  
 1877. Egg, larva, pupa, (fig.) *Riley*. 9th Missouri Rept., p. 3.  
 1878. Larva, pupa, (fig.) *G. H. Perkins*. 5th Rept. Vermont Board Agr., p. 263.  
 1882. Larva, pupa, (fig.) *Bethune*. 12th Rept. Entom. Soc. Ontario, p. 83.  
 1883. Larva, pupa, (fig.) *T. J. Edge*. Agr. Pennsylv., p. 74.  
 1883. Egg, larva, pupa, (fig.) *Saunders*. Ins. Inj. Fruits, p. 345.  
 1888. Larva, pupa, (figs.) *Bethune*. 18th Rept. Entom. Soc. Ontario, p. 56.

FOOD PLANT. *Ribes*.

**Caripeta angustiorata.** Walker.

1884. Larva, pupa. *Packard*. Amer. Naturalist, vol. 18, p. 1045.

FOOD PLANT. *Pinus*.

**Fidonia notataria.** Walker.

1882. Life history. *L. W. Goodell*. Canad. Entom., vol. 14, p. 199.

FOOD PLANT. *Pinus strobus*.

**Hæmatopis grataria.** Fabr.

1859. Life history, (figs.) *Riley*. 1st Missouri Rept., p. 179.  
 1876. Larva, pupa. *Packard*, (quotes *Riley*.) Monogr. Geometr., p. 219.

FOOD PLANT. *Stellaria*.

**Caterva catenaria.** Drury.

1852. Cocoon. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 358.  
 1862. Larva, cocoon, pupa, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 46.  
 1869. Larva, pupa. *Harris*. Entom. Corres., p. 321.  
 1876. Larva, pupa, (fig.) *Packard*. Monogr. Geometr., p. 218, pl. 13.  
 1881. Larva. *Coquillett*. Papilio, vol. 1, p. 56.

FOOD PLANTS. Various shrubs and trees.

**Tornos rubiginosaria.** Morrison.

1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawings.) Monogr. Geometr., p. 564, pl. 13.

FOOD PLANT. *Coreopsis*.

**Aspilates dissimilaria.** Hübn.1857. Larva, pupa. *Guen.* Spec. Gener. Phal., vol. 2, p. 182.1876. Larva, pupa. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 209.1876. Larva, pupa, (figs.) *Packard*, (after Abbot's MS. drawings.) Monogr. Geometr., pl. 13.FOOD PLANT. *Trifolium*.**Euaspilates spinataria.** Pack.1887. Larva, (brief.) *D. Bruce.* Entom. Amer., vol. 3, p. 49.**Cleora pulchraria.** Minot.1870. Larva, pupa. *Packard.* Inj. Ins. (new or little known), p. 14.1876. Larva, pupa, (figs.) *Packard.* Monogr. Geometr., p. 453, pl. 13.1881. Larva, pupa. *Packard*, (quotes *Saunders* in lit.) Ins. Inj. Forest Trees, p. 205.1886. Larva, pupa. *Packard.* Rept. Entom. Dept. Agr., p. 328.FOOD PLANT. *Pinus*.**Stenotrachelys approximaria.** Hübn.1857. Larva. *Guen.*, (after Abbott's MS. drawing.) Spec. Gener. Phal., vol. 1, p. 290.1876. Larva. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 449.1881. Larva. *Packard.* Ins. Inj. Forest Trees, p. 49.FOOD PLANTS. *Smilax*, *Quercus*, etc.**Epimecis hortaria.** Fab.1797. Larva, (col'd fig.) *Abbot-Smith*, (as *Ph. liriodendrararia*.) Lep. Ins. Georgia, p. 203, pl. 102.1876. Larva. *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 445.FOOD PLANT. *Liriodendron tulipifera*.**Ceratonyx satanaria.** *Guen.*1853. Larva, (col'd fig.) *Guen.* Spec. Gener. Phal., vol. 1, p. 194, pl. 2.1876. Larva. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 565.FOOD PLANTS. *Liquidambar*, *Quercus*.**Cymatophora larvaria.** *Guen.*1874. Larva. *Saunders.* Canad. Entom., vol. 6, p. 34.1876. Larva, pupa, (fig.) *Packard.* Monogr. Geometr., p. 438, pl. 13.FOOD PLANT. *Prunus*.**Cymatophora pampinaria.** *Guen.*1876. Larva, pupa. *Packard*, (quotes *L. W. Goodell* in lit.) Monogr. Geometr., p. 435.1881. Larva. *French.* Papilio, vol. 1, p. 82.FOOD PLANT. *Pyrus*.**Cymatophora humaria.** *Guen.*1876. Larva, pupa, (fig.) *Packard*, (after Abbot's MS. drawing.) Monogr. Geometr., p. 437, pl. 13.**Cymatophora crepuscularia.** Tr.1857. Larva, pupa. *Guen.* Spec. Gener. Phal., vol. 1, p. 260.1859. Larva. *H. T. Stainton.* Brit. Butt. and Moths., vol. 2, p. 28.1876. Larva. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 425.1878. Larva. *L. W. Goodell.* Canad. Entom., vol. 10, p. 67.FOOD PLANTS. *Salix*, *Populus*, *Alnus*, etc.**Paraphia subatomaria.** *Guen.*1876. Larva, (brief.) *Packard*, (quotes *Saunders* in lit.) Monogr. Geometr., p. 418.1881. Larva, (brief.) *Packard.* Ins. Inj. Forest Trees, p. 205.FOOD PLANT. *Pinus*.**Paraphia unipunctaria.** Haworth.1857. Larva, pupa, (brief.) *Guen.*, (from Abbot's MS. drawing.) Spec. Gener. Phal., vol. 2, p. 62.

1858. Larva. *Fitch*, (as *A. tripunctata*.) 5th Rept. Ins. N. York, p. 825.  
 1876. Larva, pupa. *Packard*, (quotes *Guen.*) Monogr. Geometr., p. 417.  
 1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 48.  
 FOOD PLANT. *Quercus*.

**Paraphia deplanaria.** *Guen.*

1884. Larva, pupa. *Packard*. Amer. Naturalist, vol. 18, p. 935.  
 1886. Larva, pupa. *Packard*. Rept. Entom. U. S. Dept. Agr., p. 328.  
 FOOD PLANT. *Abies*.

**Biston ursarius.** *Walk.*

1876. Life history. *G. J. Bowles*. Canad. Entom., vol. 8, p. 7.  
 1881. Larva. *Packard*, (quotes *Bowles*.) Ins. Inj. Forest Trees, p. 121.  
 FOOD PLANT. *Populus*.

**Eubyja cognataria.** *Guen.*

1871. Larva. *G. J. Bowles*. Canad. Entom., vol. 3, p. 11.  
 1871. Larva, pupa. *Saunders*. Rept. Entom. Soc. Ontario, p. 379.  
 1872. Larva. *Lintner*. 26th Rept. N. York State Cab. N. Hist., p. 166.  
 1876. Larva, pupa, (brief.) *Packard*. Monogr. Geometr., p. 414.  
 1878. Larva. *L. W. Goodell*. Canad. Entom., vol. 10, p. 67.  
 1883. Larva. *Edwards—Elliot*. Papilio, vol. 3, p. 136.  
 1883. Egg. *A. W. P. Cramer*. Bull. Brooklyn Entom. Soc., vol. 6, p. 48.  
 1885. Larva, (fig.) *Lintner*. 2d Rept. N. York State Entom., p. 99.  
 FOOD PLANTS. *Acer*, *Ribes*, etc.

**Eubyja quernaria.** *Abb.—Sm.*

1797. Larva, (col'd fig.) *Abbot—Smith*. Lep. Ins. Georgia, p. 205, pl. 103.  
 1854. Larva, pupa, (figs.) *Emmons*. Nat. Hist. N. York, vol. 5, p. 246, pl. 36.  
 1857. Larva. (?) *Guen.* Spec. Gener. Phal., vol. 1, p. 206.  
 1876. Larva. *Packard*, (after *Abbot's* MS. drawing.) Monogr. Geometr., p. 412.  
 FOOD PLANTS. *Quercus*, *Crataegus*, etc.

**Hybernia tillaria.** *Harris.*

1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 342.  
 1852. Egg, larva. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 369.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 343.  
 1862. Egg, larva. *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 472.  
 1864. Larva. *Jaeger*. Life N. Amer. Ins., p. 175.  
 1876. Larva. *Packard*, (quotes *Harris*.) Monogr. Geometr., p. 410.  
 1880. Larva. *Coquillett*. Trans. Dept. Agr. Ill., vol. 18, Append., p. 149.  
 1880. Larva, (fig.) *J. H. Comstock*, (quotes *Coquillett*.) Rept. Entom. U. S. Dept. Agr., p. 255.  
 1881. Larva, (fig.) *Packard*, (after *Comstock*.) Ins. Inj. Forest Trees, p. 125.  
 1882. Larva, (fig.) *Saunders*. Canad. Entom., vol. 14, p. 222.  
 1883. Larva, (fig.) *Saunders*. Rept. Entom. Soc. Ontario, p. 25.  
 1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 109.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 446.  
 FOOD PLANTS. *Tilia*, *Pyrus*, *Ulmus*, etc.

**Phigalia strigataria.** *Minot.*

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 241.  
 FOOD PLANTS. *Rosa*, *Ulmus*.

**Phigalia cinctaria.** *French.*

1877. Larva, pupa. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 241.  
 FOOD PLANT. *Pyrus*.

**Anisopteryx vernata.** *Harris.*

1796. Life history. *Peck*. Massachusetts Soc. Prom. Agric.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 332.  
 1843. Larva. *Willis Gaylord*. Trans. N. York State Agr. Soc., p. 153.  
 1848. Larva. *Harris*. Prairie Farmer, vol. 8, p. 172.  
 1849. Larva. *Harris*. Boston Cultivator, vol. 9, p. 376.

1850. Larva. *Harris*. N. Engl'd Farmer, ser. 2, vol. 2, p. 252.  
 1851. Larva. *Harris*. Massachusetts Ploughman, vol. 10, Nos. 8, 33.  
 1852. Larva. *Harris*. N. Engl'd Farmer, ser. 4, vol. 4, p. 155.  
 1852. Life history. *Harris*. Ins. Inj. Vegetat., 2d edit., p. 359.  
 1854. Larva. *Harris*. N. Engl'd Farmer, ser. 8, vol. 6, p. 363.  
 1856. Larva. *Fitch*. 3d Rept. Ins. N. York, p. 342.  
 1862. Life history, (figs.) *Harris*. Ins. Inj. Vegetat., Flint's edit., p. 462.  
 1862. Larva, (fig.) *Packard*. 7th Rept. Maine Board Agr., p. 173.  
 1864. Larva. *Jacger*. Life N. Amer. Ins., p. 175.  
 1867. Larva. *Tenney*. Nat. Hist., p. 407.  
 1869. Larva, (fig.) *Packard*. Guide to Study of Ins., p. 324, pl. 8.  
 1870. Egg, larva. *T. Glover*. Rept. U. S. Dept. Agr., p. 85.  
 1870. Life history, (figs.) *Riley*. 2d Missouri Rept., p. 94.  
 1872. Life history, (figs.) *Le Baron*, (after *Riley*.) 3d Illinois Rept.  
 1873. Egg, larva, (figs.) *A. J. Cook*. 12th Rept. Michigan Board Agric., p. 129.  
 1875. Egg, larva, (figs.) *Riley*. 7th Missouri Rept., p. 80.  
 1875. Egg, larval stages, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 25.  
 1876. Egg, larva, pupa. *Packard*, (quotes *Peck*.) Monogr. Geometr., p. 403.  
 1876. Larva, pupa, (figs.) *Packard*. Monogr. Geometr., p. 405, pl. 13.  
 1876. Larva, pupa. *G. H. Perkins*. 2d Rept. Vermont Board Agric., p. 591.  
 1876. Life history. *C. Thomas*. Trans. Dept. Agr. Ill., vol. 14, p. 16.  
 1877. Egg, larva, pupa, (figs.) *C. Thomas*. Trans. Dept. Agr. Ill., vol. 15, p. 110.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 237.  
 1877. Larva, pupa, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 791.  
 1877. Egg, larva. *Packard*. Half-hours with Insects, p. 173.  
 1881. Egg, larva, (figs.) *Packard*, (after *Riley*.) Ins. Inj. Forest Trees, p. 61.  
 1882. Life history, (figs.) *Riley*. 3d Rept. U. S. Entom. Comm., p. 157.  
 1882. Life history, (brief.) *Bethune*, (quotes *Saunders*.) 12th Rept. Entom. Soc. Ontario, p. 84.  
 1883. Life history, brief, (figs.) *Saunders*. Ins. Inj. Fruits, p. 67.  
 1885. Egg, larva, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Ontario, p. 23.  
 1885. Larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 446.  
 FOOD PLANTS. *Ulmus*, *Pyrus*, and many other trees.
- Anisopteryx autumnata.** *Packard*. = *pometaria*. *Mann*.  
 1841. Larva. *Harris*. Ins. Inj. Vegetat., 1st edit., p. 333.  
 1875. Egg, larva, (figs.) *Riley*. 7th Missouri Rept., p. 83.  
 1875. Egg, larva, pupa, (figs.) *Saunders*. Rept. Entom. Soc. Ontario, p. 26.  
 1876. Egg, larva, pupa, (figs.) *Packard*. Monogr. Geometr., p. 401, pl. 13.  
 1876. Larva, (brief.) *G. H. Perkins*. Rept. Vermont Board Agr., p. 595.  
 1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 239.  
 1877. Egg, larva, pupa, (figs.) *Packard*. Inj. Ins. West, Hayden's Rept., p. 793.  
 1880. Egg, larva, pupa, (figs.) *Coquillett*, (quotes *French*.) Trans. Dept. Agr. Ill., vol. 18, Append., p. 148.  
 1880. Life history, (figs.) *Riley*. 3d Rept. U. S. Entom. Comm., p. 157.  
 1883. Egg, larva, pupa, (figs.) *Saunders*. Ins. Inj. Fruits, p. 65.  
 1885. Egg, larva, (figs.) *J. Fletcher*. Rept. Entom. Dept. Agr. Ontario, p. 23.  
 1885. Egg, larva. *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 446.  
 FOOD PLANTS. *Pyrus*, *Ulmus*, and other trees.

**Heterophleps triguttata.** *H. Sch.*

1876. Larva. *Packard*, (quotes *Saunders* in lit.) Monogr. Geometr., p. 194.  
 FOOD PLANT. *Acer*.

**Hydria undulata.** *Linn.*

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 110.  
 1859. Larva, (brief.) *Humphreys*. Genera Brit. Moths, p. 111.  
 1869. Life history. *Beauchamp*. Newman's Brit. Moths, p. 179.

1870. Life history. *Fitch*. 14th Rept. Ins. N. York, p. 355.

1876. Larva. *Packard*, (quotes *Beauchamp*.) Monogr. Geometr., p. 173.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 378.

FOOD PLANTS. *Prunus, Salix, etc.*

***Rheumaptera fluctuata*. Linn.**

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 102.

1869. Larva. *Newman*. Brit. Moths, p. 164.

1876. Larva. *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 157.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 378.

FOOD PLANTS. *Cruciferae*.

***Rheumaptera unangulata*. Haworth.**

1869. Larva. *Newman*. Brit. Moths, p. 159.

1876. Larva. *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 160.

FOOD PLANT. *Alsine media*.

***Rheumaptera tristata*. Linn.**

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 100.

1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, pl. 43.

1869. Larva. *Newman*. Brit. Moths, p. 157.

1876. Larva. *Packard*, (quotes *Newman's* Brit. Moths,) Monogr. Geometr., p. 163.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 380.

FOOD PLANT. *Galium*.

***Rheumaptera hastata*. Linn.**

1829. Larva. *Stephens*. Illus. Brit. Entom., Haust., vol. 3, p. 249.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 100.

1859. Larva, (col'd fig.) *Humphreys*. Genera Brit. Moths, pl. 43.

1860. Larva, (brief.) *Duncan*. Natural. Library, vol. 30, p. 256.

1869. Larva. *Newman*. Brit. Moths, p. 157.

1872. Larva. *J. G. Wood*. Insects at Home, p. 458.

1876. Larva. *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 165.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 380.

1885. Larva, (fig.) *Fernald*. Kingsley's Stand. N. Hist., vol. 2, p. 447.

FOOD PLANTS. *Betula, Myrica*.

***Ochyria ferrugata*. Linn.**

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 105.

1869. Larva. *Newman*. Brit. Moths, p. 168.

1876. Larva. *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 148.

FOOD PLANTS. *Alsine, Glechoma, etc.*

***Ochyria munitata*. Hübn.**

1869. Larva. *Newman*. Brit. Moths, p. 168.

1876. Larva. *Packard*, (quotes *Newman's* Brit. Moths.) Monogr. Geometr., p. 138.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 376.

FOOD PLANT. *Senecio*.

***Ochyria designata*. Hübn.**

1855. Larva, (col'd fig.) *Sepp*. Dutch Lepidoptera.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths.

1869. Larva. *Newman*, (quotes *Sepp*.) Brit. Moths, p. 168.

1876. Larva. *Packard*, (quotes *Sepp* and *Stainton*.) Monogr. Geometr., p. 146.

1880. Larva, pupa. *L. W. Goodell*. Canad. Entom., vol. 12, p. 235.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 376

FOOD PLANTS. *Brassica, Alyssum*.

***Petrophora diversilineata*. Hübn.**

1870. Larva. *Saunders*. Canad. Entom., vol. 2, pp. 74, 128.

1876. Egg, larva, pupa. *Packard*. Monogr. Geometr., p. 128.

1877. Larva. *French*. Trans. Dept. Agr. Ill., vol. 15, p. 237.

1883. Larva, pupa, (fig.) *Saunders*. Ins. Inj. Fruits, p. 271.

1887. Larva, (brief.) *D. Bruce*. Entom. Amer., vol. 3, p. 60.

1887. Larva, (fig.) *J. Fletcher*. Rept. Entom. Dept. Agr. Canad., p. 30.

1888. Larva, (fig.) *J. Fletcher*. Rept. Entom. Bot. Dept. Agr. Canada, p. 30.

FOOD PLANTS. *Vitis, Ampelopsis, etc.*

***Petrophora testata*. Linn.**

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 114.

1869. Larva. *Newman*. Brit. Moths, p. 191.

1876. Larva. *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 123.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 370.

FOOD PLANTS. *Populus, Salix, Betula*.

***Petrophora prunata*. Linn.**

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 114.

1859. Larva, pupa, (col'd figs.) *Humphreys*. Genera Brit. Moths, pl. 40.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 370.

FOOD PLANT. *Ribes*.

***Petrophora truncata*. Hübner.**

1869. Life history. *Newman*. Brit. Moths, p. 186.

1876. Life history, (fig.) *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 109, pl. 13.

FOOD PLANT. *Fragaria*.

***Hydriomena sordidata*. Fabr.**

1869. Life history. *Newman*. Brit. Moths, p. 153.

1876. Larva, (fig.) *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 99, pl. 13.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 381.

FOOD PLANT. *Salix*.

***Thera contractata*. Packard.**

1885. Larva, pupa. *Packard*. Bulletin No. 12, Dept. Agr., p. 22.

FOOD PLANTS. *Pinus, Abies, Juniperus*.

***Epirrita dilutata*. Bork.**

1858. Larva. *Fitch*. 5th Rept. Ins. N. York, p. 842.

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 77.

1869. Larva. *Newman*. Brit. Moths, p. 109.

1876. Larva, (fig.) *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 88, pl. 13.

1881. Larva. *Packard*. Ins. Inj. Forest Trees, p. 63.

FOOD PLANTS. *Prunus, Quercus, Ulmus, etc.*

***Epirrita cambricaria*. Curtis.**

1869. Larva. *Newman*. Brit. Moths, p. 76.

1876. Larva. *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 86.

FOOD PLANT. *Pyrus aucuparia*.

***Plemyria fluviata*. Hübner.**

1858. Life history. (*Anonymous*.) Entomologist's Intelligencer.

1868. Life history, (figs.) *Milliere*. Ann. Linn. Soc. Lyons, p. 50, pl. 90.

1869. Life history. *Newman*. British Moths.

1876. Life history, (figs.) *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 78, pl. 13.

1876. Life history. *Packard*, (quotes *Milliere*.) Monogr. Geometr., p. 564.

FOOD PLANTS. *Anthemis, Chrysanthemum*.

***Glaucopteryx cæsiata*. Borth.**

1859. Larva. *H. T. Stainton*. Brit. Butt. and Moths, vol. 2, p. 78.

1869. Life history. *Newman*. Brit. Moths, p. 110.

1876. Life history, (fig.) *Packard*, (quotes *Newman*.) Monogr. Geometr., p. 69, pl. 13.

1882. Larva. *W. F. Kirby*. Europ. Butt. and Moths, p. 383.

FOOD PLANTS. *Ericaceæ*.

***Glaucopteryx magnoliata*. Packard. = *cumatilis*. G. and R.**

1875. Larva, pupa. *Hy. Edwards*. Proc. Cal. Acad. Sc., April.

FOOD PLANTS. *Fuschia, Geranium, etc.*

**Eupithecia miserulata.** Grote.

1876. Larva, pupa, (figs.) Packard. Monogr. Geometr., p. 54, pl. 13.

1881. Larva, pupa. Packard. Ins. Inj. Forest Trees, p. 248.

FOOD PLANT. *Juniperus*.**Eupithecia interruptofasciata.** Packard.

1881. Larva. Coquillett. Papilio, vol. 1, p. 56.

1883. Larva, pupa. Saunders. Ins. Inj. Fruits, p. 352.

FOOD PLANTS. *Trifolium*, etc.**Eupithecia zygadeniata.** Pack.

1876. Larva. Packard, (quotes Belfrage in lit.) Monogr. Geometr., p. 52.

FOOD PLANT. *Zygadenus nuttallii*.**Eupithecia absynthiata.** Linn.

1859. Larva. H. T. Stainton. Brit. Butt. and Moths, vol. 2, p. 69.

1869. Larva. Crewe. Newman's Brit. Moths, p. 136.

1876. Larva, (fig.) Packard, (quotes Crewe.) Monogr. Geometr., p. 50, pl. 13.

1877. Larva, pupa. L. W. Goodell. Canad. Entom., vol. 9, p. 62.

1882. Larva. W. F. Kirby. Europ. Butt. and Moths, p. 403.

FOOD PLANTS. Various species of *Compositæ*.**Exella pyrolaria.** Guen.

1857. Larva. Guen. Spec. Gener., vol. 1, p. 324.

1876. Larva. Packard, (quotes Guen.) Monogr. Geometr., p. 565.

FOOD PLANT. *Pyrola*.

## PYRALIDÆ.

**Omphalocera carlosa.** Lederer.

1880. Larva, cocoon. French, (as amphaloma.) 6th Rept. Ill. State Norm. Univer., p. 46.

FOOD PLANT. *Anoma triloba*.**Asopia farinalis.** Linn.

1841. Larva. Harris. Ins. Inj. Vegetat., 1st edit., p. 343.

1859. Larva. H. T. Stainton. Brit. Butt. and Moths, vol. 2, p. 134.

1877. Larva. French. Trans. Dept. Agr. Ill., vol. 15, p. 247.

1880. Larva. Coquillett. Trans. Dept. Agr. Ill., vol. 18, Append., p. 157.

1882. Larva. W. F. Kirby. Europ. Butt. and Moths, p. 410.

1885. Larva. Fernald. Kingsley's Stand. N. Hist., vol. 2, p. 444.

FEEDS on corn, meal, etc.

**Asopia costalis.** Fabr.

1870. Larva, pupa, (figs.) T. Glover. Rept. U. S. Dept. Agr., p. 84.

1874. Life history, (figs.) Riley. 6th Missouri Rept., p. 102.

1877. Larva. French, (quotes Riley.) Trans. Dept. Agr. Ill., vol. 15, p. 247.

1882. Larva, pupa, (figs.) Saunders. 12th Rept. Entom. Soc. Ontario, p. 45.

FEEDS on dry clover. *Trifolium*.**Botis inæqualis.** Guen.

1883. Larva. Coquillett. Papilio, vol. 3, p. 102.

FOOD PLANT. *Cirsium lanceolatum*.**Botis generosa.** G. and R.

1883. Larva. Coquillett. Papilio, vol. 3, p. 101.

FOOD PLANT. *Monarda fistulosa*.**Botis tertialis.** Guen.

1854. Larva. Guen., (after Abbot's MS. drawing.) Spec. General. Delt. Pyral., vol. 8, p. 364.

FOOD PLANT. *Vaccinium*.**Botis erectalis.** Grote.

1888. Larva. W. Beutenmüller. Canad. Entom., vol. 20, p. 15.

FOOD PLANT. *Apocynum*.

## APPENDIX.

Species not distinguishable by modern authors:

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**Hoporina hesperidago.** Guen.

1856. Larva. *Guen.*, (after Abbot MS.) Spec. Gener. Noct. 3, p. 393.

FOOD PLANT. *Ostrya virginica*.

**Hypogramma andromeda.** Guen.

1856. Larva, (col'd fig.) *Guen.*, (after Abbot MS.) Spec. Gener. Noct. 3, p. 36, pl. 2.

FOOD PLANT. *Andromeda arborea*.

**Nænia typica.** L.

1869. Larva. *Bethune.* Canad. Entom., vol. 1, p. 87.

(European species not known in N. Amer.)

### GEOMETRIDÆ.

**Endropia pultraria.** Guen.

1857. Larva. *Guen.* Spec. Gener. Phalaen., p. 132.

**Geometra siccifolia.** Fitch.

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